Berliner
Astronomisches Jahrbuch

für

1945

186

17.0. Jahrgang

Herausgegeben vom

Kopernikus-Institut
(Astronomisches Rechen-Institut)





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Berlin-Dahlem, Altensteinstr. 40

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Telegramm-Adresse: Astrozent Berlin

Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:
Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:
Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets*,
Vol. VII, Part I—IV: *Tables of Jupiter*, *Saturn*, *Uranus*, *Neptune*.

Für Pluto die Elemente von E. C. Bower. (Näheres siehe Erläuterungen.)

Als Sonnenhalbmesser in der mittleren Entfernung ist 16′ 1″.50 angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert 15′ 59″.63 zugrunde.

Für den Mond:
Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_{☾}$ ist aus der Äquatorial-Horizontalparallaxe $p_{☾}$ gerechnet nach der Formel

$$r_{☾} = 0.272469\, p_{☾} + 1''.50,$$

für die Finsternisse nach $\sin r_{☾} = 0.272274 \sin p_{☾}$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Dritter Fundamentalkatalog des Berliner Astronomischen Jahrbuchs (Veröffentlichungen des Astronomischen Rechen-Instituts zu Berlin-Dahlem Nr. 54 und Abhandlungen der Preußischen Akademie der Wissenschaften Jahrgang 1938. Phys.-math. Klasse. Nr. 3).

Die Sterngrößen und Sternspektren sind dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. Bd. 28, S. 67)
Die Nutations-Konstante . . . . . 9″21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. Bd. 15, S. 241)
Die Aberrations-Konstante . . . . 20″47
Die Sonnen-Parallaxe . . . . 8″80
Die Abplattung der Erde . . . . . 1 : 297

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. und G. Struve sowie von J. Woltjer ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr insofern eine Änderung erfahren, als vom vorliegenden Jahrgang ab die Tafeln der Auf- und Untergangszeiten von Sonne und Mond bis zu 40° südlicher Breite erweitert worden sind.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, des Nautical Almanac Office, London, und des Bureau des Longitudes, Paris, sowie der Deutschen Seewarte, Hamburg, und der Hamburger Sternwarte, Bergedorf, zur Verfügung gestellt.

Die Leitung der Arbeiten am Astronomischen Jahrbuch für 1945 lag in den Händen von Prof. Dr. Kohl; an der Bearbeitung der verschiedenen Teile beteiligten sich außerdem die Herren Dr. Gondolatsch, Dr. Müller, Dr. Baehr, Dr. Rabe und mehrere Hilfsarbeiter.

Kopernikus-Institut

Inhalt

Zeit- und Festrechnung 1945

Das Jahr 1945 entspricht dem
Jahr 6658 der Julianischen Periode und dem
Jahr 7453—7454 der Byzantinischen Ära.

Gregorianischer Kalender

Goldene Zahl	8
Epakte	XVI
Sonnenzirkel	22
Sonntagsbuchstabe	G

Septuagesima	28. Jan.
Aschermittwoch	14. Febr.
I. Quatember	21. Febr.
Ostersonntag	1. April
Himmelfahrt	10. Mai
Pfingstsonntag	20. Mai
II. Quatember	23. Mai
III. Quatember	19. Sept.
I. Advent	2. Dez.
IV. Quatember	19. Dez.

Dimensionen der Erde

a) Nach Bessel (1841)

Große Halbachse	a = 6 377 397.155 m	$\log a$ = 6.804 6434 637
Kleine Halbachse	b = 6 356 078.963 m	$\log b$ = 6.803 1892 839
Abplattung	α = 1 : 299.152 8129	$\log \alpha$ = 7.524 1069 092—10
Meridianquadrant	= 10 000 855.76 m	

Die Maßeinheit der Länge ist das legale Meter.

b) Nach Hayford (1909)

Große Halbachse	a = 6 378 388 m	$\log a$ = 6.804 7109 340
Kleine Halbachse	b = 6 356 911.946 m	$\log b$ = 6.803 2461 957
Abplattung	α = 1 : 297	$\log \alpha$ = 7.527 2435 507—10
Meridianquadrant	= 10 002 288.30 m	

Die Maßeinheit der Länge ist das internationale Meter.

Ein internationales Meter = 1.000 0133 legales Meter.

Normalwert für die Schwerebeschleunigung im Meeresniveau:

$\gamma_0 = 978.030\ (1 + 0.005302 \cdot \sin^2\varphi - 0.000007 \cdot \sin^2 2\varphi)$ cm. sec^{-2}. (Helmert 1901)

$\gamma_0 = 978.0490\ (1 + 0.0052884 \cdot \sin^2\varphi - 0.0000059 \cdot \sin^2 2\varphi)$ cm. sec^{-2}. (Cassinis 1930)

Masse der Erde: $5.974 \cdot 10^{27}$ g

Masse der Sonne: $1.983 \cdot 10^{33}$ g

Radius der Sonne: 695 300 km

Mittlere Entfernung Erde—Sonne: 149 504 200 km

Lichtzeit für die mittlere Entfernung Erde—Sonne: 498ˢ72 (mit Lichtgeschwindigkeit 299 774 km/sec.)

Astronomische Konstanten

Allgemeine Präzession	$\psi = 50\overset{''}{.}2564 + 0\overset{''}{.}000222\,t$
Präzession in Rektaszension	$m = 3\overset{s}{.}07234 + 0\overset{s}{.}0000186\,t$
Präzession in Deklination	$n = 20\overset{''}{.}0468 - 0\overset{''}{.}000085\,t$
Mittlere Schiefe der Ekliptik	$\varepsilon = 23°\,27'\,8\overset{''}{.}26 - 0\overset{''}{.}4684\,t$
Länge d. aufsteig. Knotens d. bewegl. a. d. festen Ekliptik	$\Pi = 173°\,57'\,3\overset{''}{.}6 + 32\overset{''}{.}862\,t$
Winkel zwischen fester u. bewegl. Ekliptik	$\pi = 0\overset{''}{.}4711 - 0\overset{''}{.}000007\,t$

Länge des tropischen Jahres	$365\overset{d}{.}24219879 - 0\overset{d}{.}0000000614\,t$
„ „ siderischen „	$365.25636042 + 0.0000000011\,t$
„ „ anomalistischen „	$365.25964134 + 0.0000000304\,t$
„ „ julianischen „	365.25

t = Zeit seit 1900 in julianischen Jahren

Länge des synodischen Monats	$29\overset{d}{.}530588$
„ „ tropischen „	27.321582
„ „ siderischen „	27.321661
„ „ anomalistischen „	27.554550

Länge des mittleren Sonnentages $= 24^h\,3^m\,56\overset{s}{.}555$ Sternzeit $= 1.00273791$ Sterntag

Länge des mittl. Sterntages $= 23^h\,56^m\,4\overset{s}{.}091$ mittl. Zeit $= 0.99726957$ mittl. Sonnentag

Äquatoreal-Horizontalparallaxe des Mondes . . . . . $57'\,2\overset{''}{.}70$

Gravitationskonstante nach Gauß $k = 0.017202099 = 3548\overset{''}{.}18761$

$\log k = 8.23558144-10$, $\log k'' = 3.55000657$

1 Lichtjahr $= 63275$ Astr. Einh. $= 0.3068$ Parsek $= 9.460 \cdot 10^{12}$ km

1 Parsek $= 206264.806$ Astr. Einh. $= 3.2598$ Lichtjahre $= 30.84 \cdot 10^{12}$ km

Elemente der Planetenbahnen für 1945 Jan. 0, 0^h Welt-Zeit

	Ω (°)	*i* (°)	$\tilde{\omega}$ (°)	*e*
Merkur	47.679	7.004	76.600	0.205623
Venus	76.185	3.394	130.797	0.006799
Erde	—	—	101.995	0.016732
Mars	49.133	1.850	335.047	0.093354
Jupiter	99.898	1.306	13.446	0.048409
Saturn	113.183	2.491	91.980	0.055737
Uranus	73.702	0.773	172.217	0.046332
Neptun	131.176	1.775	47.368	0.009000
Pluto	109.633	17.144	223.175	0.248644

	a	*L* (°)	$n_{sid.}$ (°)	$P_{sid.}$ (a)	$P_{sid.}$ (d)
Merkur	0.387099	118.442	4.09234	0	87.9693
Venus	0.723332	35.211	1.60213	0	224.7008
Erde	1.000000	99.304	0.98561	1	0.0142
Mars	1.523688	267.119	0.52403	1	321.7375
Jupiter	5.202561	164.323	0.08309	11	314.925
Saturn	9.554747	97 119	0.03346	29	167.21
Uranus	19.21814	77.627	0.01173	84	8.11
Neptun	30.10957	183.402	0.00598	164	281.6
Pluto	39.51774	158.330	0.00397	248	157

Merkur bis Mars nach Newcomb, Jupiter bis Neptun nach Leverrier und Gaillot, Pluto nach Bower. Für Pluto sind baryzentrische Elemente bezogen auf Ekliptik und mittleres Äquinoktium 1950.0 gegeben.

Astronomische Zeichen und Abkürzungen

Bezeichnung der Wochentage

☉ Sonntag
☾ Montag
♂ Dienstag
☿ Mittwoch
♃ Donnerstag
♀ Freitag
♄ Sonnabend

Adspekten

☌ Konjunktion
□ Quadratur
☍ Opposition

Mondphasen

● Neumond
☽ Erstes Viertel
○ Vollmond
☾ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Absteigender } Knoten

Zeichen

des Tierkreises und der Himmelskörper

♈	Widder . . .	0	Grad	
♉	Stier	30	»	☉ Sonne
♊	Zwillinge . . .	60	»	☾ Mond
♋	Krebs	90	»	☿ Merkur
♌	Löwe	120	»	♀ Venus
♍	Jungfrau . . .	150	»	♁ Erde
♎	Waage . . .	180	»	♂ Mars
♏	Skorpion . . .	210	»	♃ Jupiter
♐	Schütze . . .	240	»	♄ Saturn
♑	Steinbock . .	270	»	♅ Uranus
♒	Wassermann .	300	»	♆ Neptun
♓	Fische	330	»	

Sonne, Mond, Große Planeten

1945

Sonne 1945

Tag		Wochentag	0ʰ Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	0	St	− 2 52.45	28.57	18 40 2.95	4 25.13	−23 7 34.4	4 27.7	71.10	16 17.86
	1	Mo	3 21.02	28.29	18 44 28.08	4 24.84	23 3 6.7	4 55.3	71.06	16 17.87
	2	Di	3 49.31	27.96	18 48 52.92	4 24.52	22 58 11.4	5 22.8	71.02	16 17.88
	3	Mi	4 17.27	27.61	18 53 17.44	4 24.17	22 52 48.6	5 50.0	70.98	16 17.87
	4	Do	4 44.88	27.24	18 57 41.61	4 23.80	22 46 58.6	6 17.2	70.92	16 17.86
	5	Fr	5 12.12	26.83	19 2 5.41	4 23.39	22 40 41.4	6 44.1	70.86	16 17.85
	6	Sa	− 5 38.95	26.39	19 6 28.80	4 22.95	−22 33 57.3	7 10.9	70.80	16 17.83
	7	St	6 5.34	25.94	19 10 51.75	4 22.50	22 26 46.4	7 37.5	70.74	16 17.80
	8	Mo	6 31.28	25.45	19 15 14.25	4 22.00	22 19 8.9	8 3.8	70.68	16 17.77
	9	Di	6 56.73	24.94	19 19 36.25	4 21.50	22 11 5.1	8 29.9	70.61	16 17.74
	10	Mi	7 21.67	24.40	19 23 57.75	4 20.95	22 2 35.2	8 55.8	70.53	16 17.70
	11	Do	7 46.07	23.83	19 28 18.70	4 20.39	21 53 39.4	9 21.4	70.46	16 17.65
	12	Fr	− 8 9.90	23.24	19 32 39.09	4 19.80	−21 44 18.0	9 46.7	70.37	16 17.60
	13	Sa	8 33.14	22.62	19 36 58.89	4 19.18	21 34 31.3	10 11.8	70.29	16 17.55
	14	St	8 55.76	21.98	19 41 18.07	4 18.53	21 24 19.5	10 36.5	70.20	16 17.50
	15	Mo	9 17.74	21.31	19 45 36.60	4 17.87	21 13 43.0	11 1.0	70.11	16 17.44
	16	Di	9 39.05	20.62	19 49 54.47	4 17.18	21 2 42.0	11 25.2	70.02	16 17.38
	17	Mi	9 59.67	19.91	19 54 11.65	4 16.46	20 51 16.8	11 49.0	69.92	16 17.31
	18	Do	−10 19.58	19.17	19 58 28.11	4 15.73	−20 39 27.8	12 12.4	69.83	16 17.24
	19	Fr	10 38.75	18.42	20 2 43.84	4 14.98	20 27 15.4	12 35.6	69.73	16 17.16
	20	Sa	10 57.17	17.66	20 6 58.82	4 14.22	20 14 39.8	12 58.4	69.63	16 17.09
	21	St	11 14.83	16.88	20 11 13.04	4 13.43	20 1 41.4	13 20.8	69.53	16 17.01
	22	Mo	11 31.71	16.09	20 15 26.47	4 12.65	19 48 20.6	13 42.9	69.42	16 16.93
	23	Di	11 47.80	15.30	20 19 39.12	4 11.85	19 34 37.7	14 4.6	69.32	16 16.83
	24	Mi	−12 3.10	14.49	20 23 50.97	4 11.05	−19 20 33.1	14 25.9	69.21	16 16.73
	25	Do	12 17.59	13.68	20 28 2.02	4 10.24	19 6 7.2	14 46.8	69.10	16 16.63
	26	Fr	12 31.27	12.88	20 32 12.26	4 9.43	18 51 20.4	15 7.5	68.99	16 16.52
	27	Sa	12 44.15	12.06	20 36 21.69	4 8.62	18 36 12.9	15 27.7	68.87	16 16.41
	28	St	12 56.21	11.25	20 40 30.31	4 7.81	18 20 45.2	15 47.4	68.76	16 16.28
	29	Mo	13 7.46	10.44	20 44 38.12	4 6.99	18 4 57.8	16 7.0	68.65	16 16.15
	30	Di	−13 17.90	9.63	20 48 45.11	4 6.19	−17 48 50.8	16 26.0	68.54	16 16.02
	31	Mi	13 27.53	8.82	20 52 51.30	4 5.37	17 32 24.8	16 44.7	68.42	16 15.89
Febr.	1	Do	13 36.35	8.01	20 56 56.67	4 4.57	17 15 40.1	17 2.9	68.31	16 15.75
	2	Fr	13 44.36	7.21	21 1 1.24	4 3.76	16 58 37.2	17 20.8	68.19	16 15.60
	3	Sa	13 51.57	6.41	21 5 5.00	4 2.97	16 41 16.4	17 38.3	68.07	16 15.45
	4	St	13 57.98	5.61	21 9 7.97	4 2.16	16 23 38.1	17 55.5	67.96	16 15.29
	5	Mo	−14 3.59	4.81	21 13 10.13	4 1.37	−16 5 42.6	18 12.1	67.84	16 15.12
	6	Di	14 8.40	4.03	21 17 11.50	4 0.58	15 47 30.5	18 28.4	67.73	16 14.95
	7	Mi	14 12.43	3.25	21 21 12.08	3 59.80	15 29 2.1	18 44.2	67.62	16 14.78
	8	Do	14 15.68	2.46	21 25 11.88	3 59.02	15 10 17.9	18 59.7	67.50	16 14.61
	9	Fr	14 18.14	1.69	21 29 10.90	3 58.25	14 51 18.2	19 14.8	67.39	16 14.43
	10	Sa	−14 19.83		21 33 9.15		−14 32 3.4		67.28	16 14.25

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1945.0 Länge		Mittleres Äquinoktium 1945.0 Breite	R		Aufgang	Untergang
	0h Welt-Zeit									in {+50° Breite, 0h Länge	
1945	2431	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01 ″			h m	h m
Jan. 0	455.5	6 37 10.502	−981	+11	279 12 38.5	61 8.0	− 7	0.983 2655	90	7 59	16 8
1	456.5	6 41 7.059	978	+14	280 13 46.5	61 8.2	+ 4	0.983 2565	28	7 59	16 9
2	457.5	6 45 3.617	976	+14	281 14 54.7	61 8.5	+15	0.983 2537	34	7 59	16 10
3	458.5	6 49 0.175	973	+12	282 16 3.2	61 8.6	+25	0.983 2571	92	7 59	16 11
4	459.5	6 52 56.733	971	+ 8	283 17 11.8	61 8.8	+33	0.983 2663	148	7 58	16 12
5	460.5	6 56 53.291	969	+ 3	284 18 20.6	61 9.0	+39	0.983 2811	204	7 58	16 13
6	461.5	7 0 49.848	−966	− 3	285 19 29.6	61 9.2	+41	0.983 3015	255	7 58	16 14
7	462.5	7 4 46.406	964	− 8	286 20 38.8	61 9.2	+41	0.983 3270	306	7 58	16 15
8	463.5	7 8 42.963	962	−12	287 21 48.0	61 9.3	+38	0.983 3576	353	7 57	16 17
9	464.5	7 12 39.521	960	−14	288 22 57.3	61 9.3	+32	0.983 3929	399	7 57	16 18
10	465.5	7 16 36.078	958	−15	289 24 6.6	61 9.2	+24	0.983 4328	442	7 56	16 19
11	466.5	7 20 32.635	956	−12	290 25 15.8	61 9.2	+13	0.983 4770	482	7 56	16 21
12	467.5	7 24 29.193	−954	− 8	291 26 25.0	61 8.9	+ 1	0.983 5252	520	7 55	16 22
13	468.5	7 28 25.750	952	− 2	292 27 33.9	61 8.6	−13	0.983 5772	556	7 55	16 23
14	469.5	7 32 22.307	950	+ 4	293 28 42.5	61 8.2	−27	0.983 6328	592	7 54	16 25
15	470.5	7 36 18.864	948	+ 9	294 29 50.7	61 7.6	−40	0.983 6920	627	7 53	16 26
16	471.5	7 40 15.421	947	+10	295 30 58.3	61 7.1	−53	0.983 7547	663	7 52	16 28
17	472.5	7 44 11.978	945	+10	296 32 5.4	61 6.3	−65	0.983 8210	700	7 52	16 29
18	473.5	7 48 8.535	−944	+ 7	297 33 11.7	61 5.4	−74	0.983 8910	741	7 51	16 31
19	474.5	7 52 5.092	942	+ 2	298 34 17.1	61 4.6	−80	0.983 9651	784	7 50	16 32
20	475.5	7 56 1.648	941	− 3	299 35 21.7	61 3.6	−83	0.984 0435	828	7 50	16 34
21	476.5	7 59 58.205	940	− 8	300 36 25.3	61 2.6	−82	0.984 1263	876	7 48	16 36
22	477.5	8 3 54.761	939	−10	301 37 27.9	61 1.6	−78	0.984 2139	928	7 47	16 37
23	478.5	8 7 51.318	938	− 9	302 38 29.5	61 0.6	−71	0.984 3067	982	7 46	16 39
24	479.5	8 11 47.874	−937	− 6	303 39 30.1	60 59.5	−62	0.984 4049	1038	7 45	16 40
25	480.5	8 15 44.430	936	− 1	304 40 29.6	60 58.5	−51	0.984 5087	1096	7 43	16 42
26	481.5	8 19 40.986	935	+ 5	305 41 28.1	60 57.5	−38	0.984 6183	1155	7 42	16 44
27	482.5	8 23 37.542	935	+ 9	306 42 25.6	60 56.6	−24	0.984 7338	1214	7 41	16 45
28	483.5	8 27 34.098	934	+13	307 43 22.2	60 55.6	−11	0.984 8552	1274	7 40	16 47
29	484.5	8 31 30.654	933	+14	308 44 17.8	60 54.7	+ 1	0.984 9826	1332	7 38	16 49
30	485.5	8 35 27.210	−933	+13	309 45 12.5	60 53.8	+12	0.985 1158	1389	7 37	16 50
31	486.5	8 39 23.766	933	+ 9	310 46 6.3	60 52.9	+21	0.985 2547	1445	7 36	16 52
Febr. 1	487.5	8 43 20.321	933	+ 5	311 46 59.2	60 52.0	+27	0.985 3992	1498	7 34	16 54
2	488.5	8 47 16.877	933	− 1	312 47 51.2	60 51.2	+30	0.985 5490	1549	7 33	16 55
3	489.5	8 51 13.432	933	− 6	313 48 42.4	60 50.2	+31	0.985 7039	1598	7 31	16 57
4	490.5	8 55 9.987	933	−11	314 49 32.6	60 49.4	+29	0.985 8637	1644	7 30	16 59
5	491.5	8 59 6.543	−933	−14	315 50 22.0	60 48.4	+25	0.986 0281	1688	7 28	17 1
6	492.5	9 3 3.098	933	−15	316 51 10.4	60 47.5	+18	0.986 1969	1728	7 27	17 2
7	493.5	9 6 59.653	933	−14	317 51 57.9	60 46.5	+ 9	0.986 3697	1765	7 25	17 4
8	494.5	9 10 56.208	934	−10	318 52 44.4	60 45.5	− 2	0.986 5462	1800	7 24	17 6
9	495.5	9 14 52.762	935	− 5	319 53 29.9	60 44.4	−15	0.986 7262	1831	7 22	17 7
10	496.5	9 18 49.317	−935	+ 1	320 54 14.3		−28	0.986 9093		7 20	17 9

Tag	Wochentag	0ʰ Welt-Zeit							
		Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr. 10	Sa	−14 19.83	0.92	21 33 9.15	3 57.47	−14 32 3.4	19 29.4	67.28	16 14.25
11	St	14 20.75	0.15	21 37 6.62	3 56.71	14 12 34.0	19 43.6	67.17	16 14.07
12	Mo	14 20.90	0.61	21 41 3.33	3 55.95	13 52 50.4	19 57.3	67.06	16 13.89
13	Di	14 20.29	1.36	21 44 59.28	3 55.19	13 32 53.1	20 10.7	66.95	16 13.70
14	Mi	14 18.93	2.11	21 48 54.47	3 54.44	13 12 42.4	20 23.6	66.84	16 13.50
15	Do	14 16.82	2.86	21 52 48.91	3 53.69	12 52 18.8	20 36.0	66.74	16 13.32
16	Fr	−14 13.96	3.60	21 56 42.60	3 52.96	−12 31 42.8	20 48.0	66.63	16 13.12
17	Sa	14 10.36	4.32	22 0 35.56	3 52.23	12 10 54.8	20 59.6	66.53	16 12.92
18	St	14 6.04	5.04	22 4 27.79	3 51.52	11 49 55.2	21 10.8	66.43	16 12.72
19	Mo	14 1.00	5.74	22 8 19.31	3 50.81	11 28 44.4	21 21.5	66.33	16 12.52
20	Di	13 55.26	6.42	22 12 10.12	3 50.13	11 7 22.9	21 31.8	66.23	16 12.31
21	Mi	13 48.84	7.10	22 16 0.25	3 49.46	10 45 51.1	21 41.7	66.13	16 12.10
22	Do	−13 41.74	7.74	22 19 49.71	3 48.81	−10 24 9.4	21 51.2	66.04	16 11.89
23	Fr	13 34.00	8.38	22 23 38.52	3 48.17	10 2 18.2	22 0.4	65.95	16 11.67
24	Sa	13 25.62	9.00	22 27 26.69	3 47.56	9 40 17.8	22 9.0	65.86	16 11.46
25	St	13 16.62	9.59	22 31 14.25	3 46.96	9 18 8.8	22 17.3	65.78	16 11.24
26	Mo	13 7.03	10.16	22 35 1.21	3 46.39	8 55 51.5	22 25.2	65.69	16 11.01
27	Di	12 56.87	10.72	22 38 47.60	3 45.84	8 33 26.3	22 32.8	65.61	16 10.77
28	Mi	−12 46.15	11.25	22 42 33.44	3 45.30	− 8 10 53.5	22 40.0	65.53	16 10.54
März 1	Do	12 34.90	11.76	22 46 18.74	3 44.79	7 48 13.5	22 46.7	65.45	16 10.30
2	Fr	12 23.14	12.25	22 50 3.53	3 44.30	7 25 26.8	22 53.1	65.38	16 10.06
3	Sa	12 10.89	12.72	22 53 47.83	3 43.83	7 2 33.7	22 59.1	65.31	16 9.81
4	St	11 58.17	13.18	22 57 31.66	3 43.38	6 39 34.6	23 4.8	65.24	16 9.56
5	Mo	11 44.99	13.60	23 1 15.04	3 42.95	6 16 29.8	23 10.0	65.17	16 9.30
6	Di	−11 31.39	14.01	23 4 57.99	3 42.54	− 5 53 19.8	23 14.9	65.10	16 9.05
7	Mi	11 17.38	14.40	23 8 40.53	3 42.16	5 30 4.9	23 19.4	65.04	16 8.79
8	Do	11 2.98	14.77	23 12 22.69	3 41.78	5 6 45.5	23 23.6	64.99	16 8.53
9	Fr	10 48.21	15.12	23 16 4.47	3 41.44	4 43 21.9	23 27.3	64.93	16 8.27
10	Sa	10 33.09	15.45	23 19 45.91	3 41.10	4 19 54.6	23 30.6	64.88	16 8.01
11	St	10 17.64	15.76	23 23 27.01	3 40.79	3 56 24.0	23 33.7	64.83	16 7.74
12	Mo	−10 1.88	16.06	23 27 7.80	3 40.49	− 3 32 50.3	23 36.3	64.78	16 7.48
13	Di	9 45.82	16.34	23 30 48.29	3 40.21	3 9 14.0	23 38.4	64.74	16 7.21
14	Mi	9 29.48	16.61	23 34 28.50	3 39.95	2 45 35.6	23 40.3	64.70	16 6.95
15	Do	9 12.87	16.86	23 38 8.45	3 39.69	2 21 55.3	23 41.7	64.66	16 6.68
16	Fr	8 56.01	17.10	23 41 48.14	3 39.45	1 58 13.6	23 42.6	64.62	16 6.42
17	Sa	8 38.91	17.31	23 45 27.59	3 39.24	1 34 31.0	23 43.2	64.59	16 6.15
18	St	− 8 21.60	17.52	23 49 6.83	3 39.03	− 1 10 47.8	23 43.4	64.56	16 5.89
19	Mo	8 4.08	17.70	23 52 45.86	3 38.86	0 47 4.4	23 43.3	64.53	16 5.62
20	Di	7 46.38	17.86	23 56 24.72	3 38.69	− 0 23 21.1	23 42.8	64.51	16 5.36
21	Mi	7 28.52	18.01	0 0 3.41	3 38.54	+ 0 0 21.7	23 41.7	64.49	16 5.09
22	Do	7 10.51	18.13	0 3 41.95	3 38.43	0 24 3.4	23 40.5	64.48	16 4.83
23	Fr	− 6 52.38		0 7 20.38		+ 0 47 43.9		64.47	16 4.56

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	0h Welt-Zeit — Mittleres Äquinoktium 1945.0 — Länge		Breite	R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1945	2431	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Febr. 10	496.5	9 18 49.317	− 935	+ 1	320 54 14.3	60 43.3	−28	0.986 9093	1859	7 20	17 9
11	497.5	9 22 45.871	936	+ 7	321 54 57.6	60 42.0	−41	0.987 0952	1884	7 18	17 11
12	498.5	9 26 42.426	937	+10	322 55 39.6	60 40.7	−54	0.987 2836	1907	7 17	17 13
13	499.5	9 30 38.980	938	+11	323 56 20.3	60 39.2	−66	0.987 4743	1929	7 15	17 14
14	500.5	9 34 35.535	939	+ 8	324 56 59.5	60 37.7	−76	0.987 6672	1951	7 13	17 16
15	501.5	9 38 32.089	940	+ 4	325 57 37.2	60 36.1	−83	0.987 8623	1975	7 12	17 18
16	502.5	9 42 28.643	− 941	− 1	326 58 13.3	60 34.3	−86	0.988 0598	2000	7 10	17 20
17	503.5	9 46 25.197	943	− 6	327 58 47.6	60 32.5	−86	0.988 2598	2028	7 8	17 21
18	504.5	9 50 21.751	944	− 9	328 59 20.1	60 30.7	−83	0.988 4626	2057	7 6	17 23
19	505.5	9 54 18.305	946	− 9	329 59 50.8	60 28.7	−78	0.988 6683	2090	7 4	17 25
20	506.5	9 58 14.858	947	− 6	331 0 19.5	60 26.9	−69	0.988 8773	2126	7 2	17 26
21	507.5	10 2 11.412	949	− 2	332 0 46.4	60 25.0	−59	0.989 0899	2162	7 0	17 28
22	508.5	10 6 7.966	− 951	+ 4	333 1 11.4	60 23.1	−46	0.989 3061	2202	6 58	17 30
23	509.5	10 10 4.519	953	+ 9	334 1 34.5	60 21.3	−33	0.989 5263	2243	6 56	17 32
24	510.5	10 14 1.073	955	+13	335 1 55.8	60 19.4	−19	0.989 7506	2284	6 54	17 33
25	511.5	10 17 57.626	957	+14	336 2 15.2	60 17.6	− 7	0.989 9790	2325	6 52	17 35
26	512.5	10 21 54.179	959	+14	337 2 32.8	60 15.8	+ 4	0.990 2115	2367	6 50	17 37
27	513.5	10 25 50.732	961	+11	338 2 48.6	60 14.0	+14	0.990 4482	2407	6 48	17 38
28	514.5	10 29 47.286	− 963	+ 6	339 3 2.6	60 12.4	+21	0.990 6889	2448	6 46	17 40
März 1	515.5	10 33 43.839	965	+ 1	340 3 15.0	60 11.7	+25	0.990 9337	2486	6 44	17 42
2	516.5	10 37 40.392	968	− 4	341 3 26.7	60 9.0	+27	0.991 1823	2521	6 42	17 43
3	517.5	10 41 36.945	970	− 9	342 3 35.7	60 6.4	+27	0.991 4344	2556	6 40	17 45
4	518.5	10 45 33.498	973	−13	343 3 42.1	60 5.7	+23	0.991 6900	2588	6 38	17 47
5	519.5	10 49 30.050	975	−15	344 3 47.8	60 4.2	+16	0.991 9488	2616	6 36	17 48
6	520.5	10 53 26.603	− 978	−15	345 3 52.0	60 2.5	+ 8	0.992 2104	2642	6 34	17 50
7	521.5	10 57 23.156	980	−12	346 3 54.5	60 1.0	− 2	0.992 4746	2666	6 32	17 51
8	522.5	11 1 19.709	983	− 8	347 3 55.5	59 59.3	−14	0.992 7412	2684	6 30	17 53
9	523.5	11 5 16.261	985	− 2	348 3 54.8	59 57.8	−27	0.993 0096	2700	6 28	17 55
10	524.5	11 9 12.814	988	+ 4	349 3 52.6	59 56.0	−40	0.993 2796	2711	6 26	17 56
11	525.5	11 13 9.367	991	+ 8	350 3 48.6	59 54.4	−53	0.993 5507	2718	6 23	17 58
12	526.5	11 17 5.919	− 994	+10	351 3 43.0	59 52.5	−65	0.993 8225	2723	6 21	18 0
13	527.5	11 21 2.472	996	+ 9	352 3 35.5	59 50.7	−74	0.994 0948	2725	6 19	18 1
14	528.5	11 24 59.024	999	+ 5	353 3 26.2	59 49.7	−81	0.994 3673	2726	6 17	18 3
15	529.5	11 28 55.577	1002	0	354 3 15.9	59 45.7	−85	0.994 6399	2725	6 15	18 4
16	530.5	11 32 52.129	1005	− 5	355 3 1.6	59 44.6	−86	0.994 9124	2725	6 13	18 6
17	531.5	11 36 48.682	1008	− 9	356 2 46.2	59 42.3	−84	0.995 1849	2728	6 10	18 8
18	532.5	11 40 45.234	−1011	−10	357 2 28.5	59 40.1	−79	0.995 4577	2731	6 8	18 9
19	533.5	11 44 41.787	1014	− 7	358 2 8.6	59 37.7	−70	0.995 7308	2737	6 6	18 11
20	534.5	11 48 38.339	1017	− 3	359 1 46.3	59 35.5	−59	0.996 0045	2746	6 4	18 12
21	535.5	11 52 34.892	1019	+ 3	0 1 21.8	59 33.1	−47	0.996 2791	2758	6 2	18 14
22	536.5	11 56 31.444	1022	+ 9	1 0 54.9	59 30.9	−34	0.996 5549	2771	6 0	18 16
23	537.5	12 0 27.997	−1025	+13	2 0 25.8		−21	0.996 8320		5 57	18 17

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung — Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 23	Fr	−6 52.38	18.22	0 7 20.38	3 38.33	+ 0 47 43.9	23 38.9	64.47	16 4.56
24	Sa	6 34.16	18.30	0 10 58.71	3 38.25	1 11 22.8	23 36.9	64.46	16 4.29
25	St	6 15.86	18.35	0 14 36.96	3 38.21	1 34 59.7	23 34.6	64.45	16 4.02
26	Mo	5 57.51	18.38	0 18 15.17	3 38.17	1 58 34.3	23 31.9	64.44	16 3.75
27	Di	5 39.13	18.38	0 21 53.34	3 38.17	2 22 6.2	23 28.8	64.44	16 3.47
28	Mi	5 20.75	18.37	0 25 31.51	3 38.18	2 45 35.0	23 25.5	64.44	16 3.19
29	Do	−5 2.38	18.33	0 29 9.69	3 38.22	+ 3 9 0.5	23 21.9	64.44	16 2.92
30	Fr	4 44.05	18.27	0 32 47.91	3 38.29	3 32 22.4	23 17.9	64.45	16 2.64
31	Sa	4 25.78	18.18	0 36 26.20	3 38.37	3 55 40.3	23 13.5	64.46	16 2.36
April 1	St	4 7.60	18.08	0 40 4.57	3 38.47	4 18 53.8	23 8.8	64.48	16 2.08
2	Mo	3 49.52	17.96	0 43 43.04	3 38.60	4 42 2.6	23 3.8	64.50	16 1.80
3	Di	3 31.56	17.80	0 47 21.64	3 38.75	5 5 6.4	22 58.5	64.52	16 1.52
4	Mi	−3 13.76	17.63	0 51 0.39	3 38.93	+ 5 28 4.9	22 52.9	64.54	16 1.23
5	Do	2 56.13	17.44	0 54 39.32	3 39.11	5 50 57.8	22 46.9	64.56	16 0.95
6	Fr	2 38.69	17.23	0 58 18.43	3 39.32	6 13 44.7	22 40.5	64.59	16 0.67
7	Sa	2 21.46	17.01	1 1 57.75	3 39.54	6 36 25.2	22 33.9	64.62	16 0.39
8	St	2 4.45	16.76	1 5 37.29	3 39.80	6 58 59.1	22 26.9	64.65	16 0.11
9	Mo	1 47.69	16.50	1 9 17.09	3 40.05	7 21 26.0	22 19.5	64.68	15 59.83
10	Di	−1 31.19	16.23	1 12 57.14	3 40.32	+ 7 43 45.5	22 11.9	64.72	15 59.55
11	Mi	1 14.96	15.95	1 16 37.46	3 40.60	8 5 57.4	22 3.7	64.76	15 59.27
12	Do	0 59.01	15.64	1 20 18.06	3 40.91	8 28 1.1	21 55.3	64.80	15 59.00
13	Fr	0 43.37	15.34	1 23 58.97	3 41.22	8 49 56.4	21 46.5	64.84	15 58.73
14	Sa	0 28.03	15.02	1 27 40.19	3 41.53	9 11 42.9	21 37.3	64.89	15 58.46
15	St	−0 13.01	14.69	1 31 21.72	3 41.86	9 33 20.2	21 27.8	64.94	15 58.20
16	Mo	+0 1.68	14.34	1 35 3.58	3 42.21	+ 9 54 48.0	21 17.9	64.99	15 57.94
17	Di	0 16.02	13.99	1 38 45.79	3 42.57	10 16 5.9	21 7.6	65.04	15 57.67
18	Mi	0 30.01	13.62	1 42 28.36	3 42.93	10 37 13.5	20 57.0	65.10	15 57.41
19	Do	0 43.63	13.23	1 46 11.29	3 43.32	10 58 10.5	20 46.1	65.16	15 57.15
20	Fr	0 56.86	12.84	1 49 54.61	3 43.72	11 18 56.6	20 34.7	65.22	15 56.90
21	Sa	1 9.70	12.42	1 53 38.33	3 44.13	11 39 31.3	20 23.2	65.28	15 56.65
22	St	+1 22.12	12.00	1 57 22.46	3 44.56	+11 59 54.5	20 11.3	65.35	15 56.39
23	Mo	1 34.12	11.55	2 1 7.02	3 45.01	12 20 5.8	19 59.1	65.41	15 56.14
24	Di	1 45.67	11.10	2 4 52.03	3 45.45	12 40 4.9	19 46.4	65.48	15 55.89
25	Mi	1 56.77	10.62	2 8 37.48	3 45.93	12 59 51.3	19 33.6	65.55	15 55.64
26	Do	2 7.39	10.15	2 12 23.41	3 46.41	13 19 24.9	19 20.5	65.62	15 55.39
27	Fr	2 17.54	9.64	2 16 9.82	3 46.91	13 38 45.4	19 7.0	65.69	15 55.14
28	Sa	+2 27.18	9.14	2 19 56.73	3 47.42	+13 57 52.4	18 53.2	65.76	15 54.89
29	St	2 36.32	8.62	2 23 44.15	3 47.94	14 16 45.6	18 39.0	65.84	15 54.65
30	Mo	2 44.94	8.08	2 27 32.09	3 48.47	14 35 24.6	18 24.7	65.91	15 54.40
Mai 1	Di	2 53.02	7.54	2 31 20.56	3 49.01	14 53 49.3	18 10.0	65.99	15 54.15
2	Mi	3 0.56	6.98	2 35 9.57	3 49.57	15 11 59.3	17 55.0	66.06	15 53.91
3	Do	+3 7.54		2 38 59.14		+15 29 54.3		66.14	15 53.67

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1945.0 Länge		Breite	R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1945	2431	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
März 23	537.5	12 0 27.997	−1025	+13	2 0 25.8	59 28.5	−21	0.996 8320	2785	5 57	18 17
24	538.5	12 4 24.549	1028	+15	2 59 54.3	59 26.3	− 9	0.997 1105	2800	5 55	18 19
25	539.5	12 8 21.102	1031	+15	3 59 20.6	59 24.1	+ 2	0.997 3905	2817	5 53	18 20
26	540.5	12 12 17.654	1034	+12	4 58 44.7	59 21.9	+11	0.997 6722	2833	5 51	18 22
27	541.5	12 16 14.207	1037	+ 8	5 58 6.6	59 19.8	+18	0.997 9555	2851	5 49	18 23
28	542.5	12 20 10.759	1040	+ 3	6 57 26.4	59 17.7	+23	0.998 2406	2867	5 47	18 25
29	543.5	12 24 7.312	−1042	− 2	7 56 44.1	59 15.6	+24	0.998 5273	2883	5 44	18 26
30	544.5	12 28 3.864	1045	− 7	8 55 59.7	59 13.7	+24	0.998 8156	2897	5 42	18 28
31	545.5	12 32 0.417	1048	−12	9 55 13.4	59 11.7	+21	0.999 1053	2910	5 40	18 30
April 1	546.5	12 35 56.970	1051	−14	10 54 25.1	59 9.9	+15	0.999 3963	2922	5 38	18 31
2	547.5	12 39 53.522	1053	−15	11 53 35.0	59 7.9	+ 6	0.999 6885	2930	5 36	18 33
3	548.5	12 43 50.075	1056	−13	12 52 42.9	59 6.2	− 4	0.999 9815	2937	5 34	18 34
4	549.5	12 47 46.628	−1059	− 9	13 51 49.1	59 4.4	−16	1.000 2752	2940	5 31	18 36
5	550.5	12 51 43.181	1061	− 4	14 50 53.5	59 2.6	−28	1.000 5692	2940	5 29	18 37
6	551.5	12 55 39.733	1064	+ 2	15 49 56.1	59 0.9	−42	1.000 8632	2936	5 27	18 39
7	552.5	12 59 36.286	1066	+ 6	16 48 57.0	58 59.2	−55	1.001 1568	2928	5 25	18 41
8	553.5	13 3 32.839	1068	+ 9	17 47 56.2	58 57.4	−67	1.001 4496	2916	5 23	18 42
9	554.5	13 7 29.392	1071	+ 8	18 46 53.6	58 55.6	−77	1.001 7412	2899	5 21	18 44
10	555.5	13 11 25.945	−1073	+ 6	19 45 49.2	58 53.8	−85	1.002 0311	2880	5 19	18 45
11	556.5	13 15 22.499	1075	+ 1	20 44 43.0	58 52.0	−89	1.002 3191	2858	5 16	18 47
12	557.5	13 19 19.052	1078	− 5	21 43 35.0	58 49.9	−90	1.002 6049	2834	5 14	18 48
13	558.5	13 23 15.605	1080	− 9	22 42 24.9	58 48.0	−88	1.002 8883	2807	5 12	18 50
14	559.5	13 27 12.158	1082	−11	23 41 12.9	58 45.8	−84	1.003 1690	2783	5 10	18 52
15	560.5	13 31 8.712	1084	− 9	24 39 58.7	58 43.7	−76	1.003 4473	2759	5 8	18 53
16	561.5	13 35 5.265	−1086	− 5	25 38 42.4	58 41.5	−65	1.003 7232	2738	5 6	18 55
17	562.5	13 39 1.819	1087	+ 1	26 37 23.9	58 39.2	−53	1.003 9970	2718	5 4	18 56
18	563.5	13 42 58.372	1089	+ 7	27 36 3.1	58 37.1	−42	1.004 2688	2701	5 2	18 58
19	564.5	13 46 54.926	1091	+12	28 34 40.2	58 34.8	−29	1.004 5389	2686	5 0	18 59
20	565.5	13 50 51.480	1092	+16	29 33 15.0	58 32.6	−16	1.004 8075	2673	4 58	19 1
21	566.5	13 54 48.034	1094	+16	30 31 47.6	58 30.4	− 5	1.005 0748	2662	4 56	19 3
22	567.5	13 58 44.588	−1095	+14	31 30 18.0	58 28.3	+ 3	1.005 3410	2652	4 54	19 4
23	568.5	14 2 41.142	1097	+10	32 28 46.3	58 26.3	+10	1.005 6062	2643	4 52	19 6
24	569.5	14 6 37.696	1098	+ 5	33 27 12.6	58 24.2	+15	1.005 8705	2634	4 50	19 7
25	570.5	14 10 34.250	1099	0	34 25 36.8	58 22.3	+16	1.006 1339	2627	4 48	19 9
26	571.5	14 14 30.804	1100	− 6	35 23 59.1	58 20.3	+15	1.006 3966	2619	4 46	19 10
27	572.5	14 18 27.358	1101	−10	36 22 19.4	58 18.6	+12	1.006 6585	2611	4 45	19 12
28	573.5	14 22 23.913	−1102	−13	37 20 38.0	58 16.7	+ 6	1.006 9196	2602	4 43	19 13
29	574.5	14 26 20.467	1103	−14	38 18 54.7	58 15.0	− 3	1.007 1798	2593	4 41	19 15
30	575.5	14 30 17.022	1104	−12	39 17 9.7	58 13.4	−13	1.007 4391	2581	4 39	19 17
Mai 1	576.5	14 34 13.576	1105	− 9	40 15 23.1	58 11.7	−25	1.007 6972	2568	4 37	19 18
2	577.5	14 38 10.131	1105	− 5	41 13 34.8	58 10.3	−39	1.007 9540	2553	4 35	19 20
3	578.5	14 42 6.686	−1106	0	42 11 45.1		−52	1.008 2093		4 34	19 21

(Alle Werte für 0^h Welt-Zeit.)

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit) m s	s	Scheinbare Rektaszension h m s	m s	Scheinbare Deklination ° ′ ″	′ ″	Halbe Durchgangs-Dauer St.-Zt. s	Halbmesser ′ ″
1945									
Mai 3	Do	+3 7.54	6.43	2 38 59.14	3 50.13	+15 29 54.3	17 39.8	66.14	15 53.67
4	Fr	3 13.97	5.85	2 42 49.27	3 50.71	15 47 34.1	17 24.2	66.22	15 53.43
5	Sa	3 19.82	5.27	2 46 39.98	3 51.28	16 4 58.3	17 8.2	66.30	15 53.20
6	St	3 25.09	4.69	2 50 31.26	3 51.86	16 22 6.5	16 52.1	66.39	15 52.96
7	Mo	3 29.78	4.11	2 54 23.12	3 52.45	16 38 58.6	16 35.6	66.47	15 52.73
8	Di	3 33.89	3.52	2 58 15.57	3 53.03	16 55 34.2	16 18.8	66.55	15 52.50
9	Mi	+3 37.41	2.94	3 2 8.60	3 53.62	+17 11 53.0	16 1.6	66.63	15 52.27
10	Do	3 40.35	2.35	3 6 2.22	3 54.20	17 27 54.6	15 44.2	66.71	15 52.05
11	Fr	3 42.70	1.78	3 9 56.42	3 54.79	17 43 38.8	15 26.4	66.79	15 51.83
12	Sa	3 44.48	1.20	3 13 51.21	3 55.35	17 59 5.2	15 8.3	66.88	15 51.62
13	St	3 45.68	0.63	3 17 46.56	3 55.92	18 14 13.5	14 50.0	66.96	15 51.42
14	Mo	3 46.31	0.07	3 21 42.48	3 56.49	18 29 3.5	14 31.2	67.04	15 51.21
15	Di	+3 46.38	0.48	3 25 38.97	3 57.04	+18 43 34.7	14 12.2	67.12	15 51.01
16	Mi	3 45.90	1.04	3 29 36.01	3 57.59	18 57 46.9	13 52.9	67.20	15 50.81
17	Do	3 44.86	1.58	3 33 33.60	3 58.14	19 11 39.8	13 33.4	67.28	15 50.62
18	Fr	3 43.28	2.12	3 37 31.74	3 58.67	19 25 13.2	13 13.5	67.36	15 50.43
19	Sa	3 41.16	2.65	3 41 30.41	3 59.21	19 38 26.7	12 53.4	67.44	15 50.25
20	St	3 38.51	3.18	3 45 29.62	3 59.74	19 51 20.1	12 33.0	67.52	15 50.07
21	Mo	+3 35.33	3.71	3 49 29.36	4 0.27	+20 3 53.1	12 12.4	67.60	15 49.89
22	Di	3 31.62	4.23	3 53 29.63	4 0.78	20 16 5.5	11 51.6	67.67	15 49.71
23	Mi	3 27.39	4.73	3 57 30.41	4 1.29	20 27 57.1	11 30.5	67.75	15 49.54
24	Do	3 22.66	5.24	4 1 31.70	4 1.79	20 39 27.6	11 9.1	67.82	15 49.37
25	Fr	3 17.42	5.73	4 5 33.49	4 2.29	20 50 36.7	10 47.7	67.89	15 49.21
26	Sa	3 11.69	6.22	4 9 35.78	4 2.78	21 1 24.4	10 25.9	67.96	15 49.05
27	St	+3 5.47	6.70	4 13 38.56	4 3.26	+21 11 50.3	10 4.0	68.03	15 48.88
28	Mo	2 58.77	7.18	4 17 41.82	4 3.73	21 21 54.3	9 41.8	68.10	15 48.72
29	Di	2 51.59	7.63	4 21 45.55	4 4.19	21 31 36.1	9 19.5	68.17	15 48.57
30	Mi	2 43.96	8.08	4 25 49.74	4 4.64	21 40 55.6	8 57.0	68.23	15 48.41
31	Do	2 35.88	8.52	4 29 54.38	4 5.07	21 49 52.6	8 34.3	68.29	15 48.26
Juni 1	Fr	2 27.36	8.95	4 33 59.45	4 5.51	21 58 26.9	8 11.4	68.35	15 48.11
2	Sa	+2 18.41	9.36	4 38 4.96	4 5.92	+22 6 38.3	7 48.3	68.40	15 47.96
3	St	2 9.05	9.76	4 42 10.88	4 6.32	22 14 26.6	7 25.2	68.45	15 47.82
4	Mo	1 59.29	10.14	4 46 17.20	4 6.69	22 21 51.8	7 1.8	68.50	15 47.68
5	Di	1 49.15	10.50	4 50 23.89	4 7.06	22 28 53.6	6 38.3	68.55	15 47.55
6	Mi	1 38.65	10.85	4 54 30.95	4 7.40	22 35 31.9	6 14.5	68.60	15 47.42
7	Do	1 27.80	11.16	4 58 38.35	4 7.72	22 41 46.4	5 50.7	68.65	15 47.30
8	Fr	+1 16.64	11.45	5 2 46.07	4 8.01	+22 47 37.1	5 26.8	68.69	15 47.18
9	Sa	1 5.19	11.73	5 6 54.08	4 8.28	22 53 3.9	5 2.7	68.73	15 47.06
10	St	0 53.46	11.96	5 11 2.36	4 8.53	22 58 6.6	4 38.4	68.76	15 46.96
11	Mo	0 41.50	12.18	5 15 10.89	4 8.74	23 2 45.0	4 14.1	68.79	15 46.85
12	Di	0 29.32	12.37	5 19 19.63	4 8.92	23 6 59.1	3 49.6	68.82	15 46.75
13	Mi	+0 16.95		5 23 28.55		+23 10 48.7		68.85	15 46.66

Tag	0h Welt-Zeit: Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1945.0: Länge		Breite	R		Aufgang (in +50° Breite, 0h Länge)	Untergang (in +50° Breite, 0h Länge)
1945	2431	h m s	s in 0.001		° ′ ″		″ in 0.01			h m	h m
Mai 3	578.5	14 42 6.686	−1106	0	42 11 45.1	58′ 8.″8	− 52	1.008 2093	2536	4 34	19 21
4	579.5	14 46 3.241	1106	+ 5	43 9 53.9	58 7.3	− 65	1.008 4629	2514	4 32	19 23
5	580.5	14 49 59.796	1106	+ 8	44 8 1.2	58 6.0	− 77	1.008 7143	2489	4 30	19 24
6	581.5	14 53 56.351	1107	+ 8	45 6 7.2	58 4.6	− 88	1.008 9632	2459	4 29	19 26
7	582.5	14 57 52.906	1107	+ 6	46 4 11.8	58 3.3	− 96	1.009 2091	2426	4 27	19 27
8	583.5	15 1 49.462	1107	+ 2	47 2 15.1	58 1.9	−101	1.009 4517	2388	4 25	19 29
9	584.5	15 5 46.017	−1107	− 4	48 0 17.0	58 0.5	−103	1.009 6905	2348	4 24	19 30
10	585.5	15 9 42.573	1107	− 9	48 58 17.5	57 59.1	−102	1.009 9253	2304	4 22	19 32
11	586.5	15 13 39.128	1107	−12	49 56 16.6	57 57.6	− 97	1.010 1557	2259	4 21	19 33
12	587.5	15 17 35.684	1107	−12	50 54 14.2	57 56.0	− 89	1.010 3816	2212	4 19	19 34
13	588.5	15 21 32.239	1106	− 8	51 52 10.2	57 54.5	− 79	1.010 6028	2166	4 18	19 36
14	589.5	15 25 28.795	1106	− 3	52 50 4.7	57 52.7	− 68	1.010 8194	2121	4 16	19 37
15	590.5	15 29 25.351	−1105	+ 4	53 47 57.4	57 51.1	− 55	1.011 0315	2077	4 15	19 39
16	591.5	15 33 21.907	1105	+10	54 45 48.5	57 49.4	− 42	1.011 2392	2036	4 13	19 40
17	592.5	15 37 18.463	1104	+15	55 43 37.9	57 47.8	− 29	1.011 4428	1998	4 12	19 42
18	593.5	15 41 15.019	1103	+17	56 41 25.7	57 46.0	− 17	1.011 6426	1961	4 11	19 43
19	594.5	15 45 11.575	1102	+16	57 39 11.7	57 44.4	− 7	1.011 8387	1928	4 9	19 44
20	595.5	15 49 8.132	1101	+13	58 36 56.1	57 42.8	0	1.012 0315	1895	4 8	19 46
21	596.5	15 53 4.688	−1100	+ 8	59 34 38.9	57 41.2	+ 5	1.012 2210	1864	4 7	19 47
22	597.5	15 57 1.244	1099	+ 2	60 32 20.1	57 39.7	+ 7	1.012 4074	1835	4 6	19 48
23	598.5	16 0 57.801	1098	− 4	61 29 59.8	57 38.2	+ 7	1.012 5909	1806	4 5	19 49
24	599.5	16 4 54.358	1097	− 8	62 27 38.0	57 36.9	+ 4	1.012 7715	1780	4 3	19 51
25	600.5	16 8 50.914	1096	−12	63 25 14.9	57 35.5	− 2	1.012 9495	1753	4 2	19 52
26	601.5	16 12 47.471	1094	−13	64 22 50.4	57 34.3	− 10	1.013 1248	1727	4 1	19 53
27	602.5	16 16 44.028	−1093	−12	65 20 24.7	57 33.1	− 20	1.013 2975	1701	4 0	19 54
28	603.5	16 20 40.584	1091	−10	66 17 57.8	57 32.0	− 32	1.013 4676	1675	3 59	19 56
29	604.5	16 24 37.141	1090	− 6	67 15 29.8	57 31.0	− 44	1.013 6351	1647	3 59	19 57
30	605.5	16 28 33.698	1088	0	68 13 0.8	57 30.1	− 58	1.013 7998	1619	3 58	19 58
31	606.5	16 32 30.255	1087	+ 4	69 10 30.9	57 29.2	− 72	1.013 9617	1588	3 57	19 59
Juni 1	607.5	16 36 26.812	1085	+ 8	70 8 0.1	57 28.4	− 84	1.014 1205	1555	3 56	20 0
2	608.5	16 40 23.369	−1083	+ 9	71 5 28.5	57 27.7	− 95	1.014 2760	1519	3 55	20 1
3	609.5	16 44 19.927	1081	+ 8	72 2 56.2	57 27.1	−103	1.014 4279	1478	3 55	20 2
4	610.5	16 48 16.484	1080	+ 3	73 0 23.3	57 26.4	−109	1.014 5757	1434	3 54	20 3
5	611.5	16 52 13.041	1078	− 2	73 57 49.7	57 25.8	−112	1.014 7191	1387	3 53	20 4
6	612.5	16 56 9.598	1076	− 8	74 55 15.5	57 25.1	−111	1.014 8578	1336	3 53	20 5
7	613.5	17 0 6.156	1074	−11	75 52 40.6	57 24.6	−107	1.014 9914	1282	3 52	20 5
8	614.5	17 4 2.713	−1072	−13	76 50 5.2	57 23.9	− 99	1.015 1196	1224	3 52	20 6
9	615.5	17 7 59.271	1070	−11	77 47 29.1	57 23.1	− 88	1.015 2420	1166	3 52	20 7
10	616.5	17 11 55.828	1068	− 5	78 44 52.2	57 22.4	− 77	1.015 3586	1106	3 51	20 8
11	617.5	17 15 52.386	1065	+ 1	79 42 14.6	57 21.7	− 63	1.015 4692	1047	3 51	20 8
12	618.5	17 19 48.943	1063	+ 7	80 39 36.3	57 20.8	− 49	1.015 5739	989	3 51	20 9
13	619.5	17 23 45.501	−1061	+13	81 36 57.1		− 35	1.015 6728		3 50	20 10

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit	Diff.	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni 13	Mi	+0 16.95	12.54	5 23 28.55	4 9.09	+23 10 48.7	3 25.1	68.85	15 46.66
14	Do	+0 4.41	12.67	5 27 37.64	4 9.23	23 14 13.8	3 0.5	68.88	15 46.57
15	Fr	—0 8.26	12.78	5 31 46.87	4 9.34	23 17 14.3	2 35.8	68.89	15 46.49
16	Sa	0 21.04	12.87	5 35 56.21	4 9.43	23 19 50.1	2 11.1	68.91	15 46.42
17	St	0 33.91	12.94	5 40 5.64	4 9.50	23 22 1.2	1 46.3	68.92	15 46.35
18	Mo	0 46.85	12.98	5 44 15.14	4 9.54	23 23 47.5	1 21.5	68.93	15 46.28
19	Di	—0 59.83	13.00	5 48 24.68	4 9.55	+23 25 9.0	0 56.7	68.94	15 46.21
20	Mi	1 12.83	12.99	5 52 34.23	4 9.56	23 26 5.7	0 31.8	68.94	15 46.15
21	Do	1 25.82	12.97	5 56 43.79	4 9.52	23 26 37.5	0 7.0	68.94	15 46.10
22	Fr	1 38.79	12.92	6 0 53.31	4 9.48	23 26 44.5	0 17.7	68.94	15 46.05
23	Sa	1 51.71	12.86	6 5 2.79	4 9.41	23 26 26.8	0 42.6	68.93	15 46.00
24	St	2 4.57	12.76	6 9 12.20	4 9.33	23 25 44.2	1 7.3	68.92	15 45.95
25	Mo	—2 17.33	12.66	6 13 21.53	4 9.21	+23 24 36.9	1 32.0	68.91	15 45.91
26	Di	2 29.99	12.53	6 17 30.74	4 9.09	23 23 4.9	1 56.7	68.89	15 45.87
27	Mi	2 42.52	12.39	6 21 39.83	4 8.94	23 21 8.2	2 21.3	68.87	15 45.83
28	Do	2 54.91	12.22	6 25 48.77	4 8.78	23 18 46.9	2 45.8	68.85	15 45.80
29	Fr	3 7.13	12.04	6 29 57.55	4 8.60	23 16 1.1	3 10.3	68.82	15 45.77
30	Sa	3 19.17	11.84	6 34 6.15	4 8.40	23 12 50.8	3 34.7	68.80	15 45.75
Juli 1	St	—3 31.01	11.62	6 38 14.55	4 8.17	+23 9 16.1	3 58.9	68.77	15 45.73
2	Mo	3 42.63	11.37	6 42 22.72	4 7.93	23 5 17.2	4 23.2	68.73	15 45.71
3	Di	3 54.00	11.12	6 46 30.65	4 7.68	23 0 54.0	4 47.2	68.69	15 45.70
4	Mi	4 5.12	10.84	6 50 38.33	4 7.39	22 56 6.8	5 11.2	68.65	15 45.69
5	Do	4 15.96	10.52	6 54 45.72	4 7.09	22 50 55.6	5 35.1	68.61	15 45.68
6	Fr	4 26.48	10.20	6 58 52.81	4 6.75	22 45 20.5	5 58.8	68.57	15 45.68
7	Sa	—4 36.68	9.85	7 2 59.56	4 6.41	+22 39 21.7	6 22.4	68.51	15 45.69
8	St	4 46.53	9.48	7 7 5.97	4 6.04	22 32 59.3	6 45.9	68.46	15 45.70
9	Mo	4 56.01	9.08	7 11 12.01	4 5.64	22 26 13.4	7 9.1	68.40	15 45.72
10	Di	5 5.09	8.66	7 15 17.65	4 5.21	22 19 4.3	7 32.2	68.34	15 45.74
11	Mi	5 13.75	8.22	7 19 22.86	4 4.78	22 11 32.1	7 55.2	68.28	15 45.77
12	Do	5 21.97	7.76	7 23 27.64	4 4.32	22 3 36.9	8 17.8	68.22	15 45.80
13	Fr	—5 29.73	7.28	7 27 31.96	4 3.84	+21 55 19.1	8 40.5	68.16	15 45.84
14	Sa	5 37.01	6.79	7 31 35.80	4 3.34	21 46 38.6	9 2.8	68.10	15 45.88
15	St	5 43.80	6.27	7 35 39.14	4 2.83	21 37 35.8	9 25.0	68.03	15 45.94
16	Mo	5 50.07	5.75	7 39 41.97	4 2.31	21 28 10.8	9 46.8	67.96	15 46.00
17	Di	5 55.82	5.22	7 43 44.28	4 1.77	21 18 24.0	10 8.5	67.88	15 46.06
18	Mi	6 1.04	4.66	7 47 46.05	4 1.22	21 8 15.5	10 29.9	67.81	15 46.12
19	Do	—6 5.70	4.11	7 51 47.27	4 0.67	+20 57 45.6	10 51.2	67.74	15 46.18
20	Fr	6 9.81	3.55	7 55 47.94	4 0.10	20 46 54.4	11 12.2	67.66	15 46.26
21	Sa	6 13.36	2.97	7 59 48.04	3 59.52	20 35 42.2	11 32.9	67.58	15 46.34
22	St	6 16.33	2.39	8 3 47.56	3 58.95	20 24 9.3	11 53.4	67.50	15 46.41
23	Mo	6 18.72	1.80	8 7 46.51	3 58.36	20 12 15.9	12 13.6	67.42	15 46.49
24	Di	—6 20.52		8 11 44.87		+20 0 2.3		67.34	15 46.58

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	0ʰ Welt-Zeit, Mittleres Äquinoktium 1945.0: Länge		Breite	R		Aufgang in {+50° Breite, 0ʰ Länge}	Untergang
1945	2431	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Juni 13	619.5	17 23 45.501	−1061	+13	81 36 57.1	57 19.9	− 35	1.015 6728	932	3 50	20 10
14	620.5	17 27 42.058	1059	+16	82 34 17.0	57 19.1	− 22	1.015 7660	877	3 50	20 10
15	621.5	17 31 38.616	1057	+16	83 31 36.1	57 18.2	− 11	1.015 8537	825	3 50	20 11
16	622.5	17 35 35.173	1055	+14	84 28 54.3	57 17.4	− 3	1.015 9362	776	3 50	20 11
17	623.5	17 39 31.731	1052	+ 9	85 26 11.7	57 16.5	+ 3	1.016 0138	730	3 50	20 12
18	624.5	17 43 28.288	1050	+ 4	86 23 28.2	57 15.8	+ 7	1.016 0868	684	3 50	20 12
19	625.5	17 47 24.846	−1048	− 2	87 20 44.0	57 15.0	+ 8	1.016 1552	640	3 50	20 12
20	626.5	17 51 21.404	1046	− 7	88 17 59.0	57 14.4	+ 6	1.016 2192	600	3 50	20 13
21	627.5	17 55 17.961	1043	−11	89 15 13.4	57 13.7	+ 2	1.016 2792	560	3 50	20 13
22	628.5	17 59 14.519	1041	−13	90 12 27.1	57 13.2	− 5	1.016 3352	523	3 51	20 13
23	629.5	18 3 11.077	1039	−13	91 9 40.3	57 12.6	− 14	1.016 3875	486	3 51	20 13
24	630.5	18 7 7.634	1037	−11	92 6 52.9	57 12.3	− 25	1.016 4361	451	3 51	20 13
25	631.5	18 11 4.192	−1034	− 6	93 4 5.2	57 11.9	− 37	1.016 4812	418	3 52	20 13
26	632.5	18 15 0.749	1032	− 1	94 1 17.1	57 11.6	− 50	1.016 5230	384	3 52	20 13
27	633.5	18 18 57.307	1030	+ 4	94 58 28.7	57 11.5	− 63	1.016 5614	350	3 52	20 13
28	634.5	18 22 53.865	1028	+ 8	95 55 40.2	57 11.5	− 77	1.016 5964	315	3 53	20 13
29	635.5	18 26 50.422	1025	+10	96 52 51.7	57 11.4	− 88	1.016 6279	278	3 53	20 13
30	636.5	18 30 46.980	1023	+ 9	97 50 3.1	57 11.6	− 97	1.016 6557	238	3 54	20 13
Juli 1	637.5	18 34 43.537	−1021	+ 6	98 47 14.7	57 11.8	−103	1.016 6795	196	3 55	20 13
2	638.5	18 38 40.095	1019	0	99 44 26.5	57 12.0	−106	1.016 6991	151	3 55	20 12
3	639.5	18 42 36.652	1017	− 5	100 41 38.5	57 12.2	−106	1.016 7142	103	3 56	20 12
4	640.5	18 46 33.210	1015	−10	101 38 50.7	57 12.6	−102	1.016 7245	50	3 57	20 12
5	641.5	18 50 29.767	1013	−12	102 36 3.3	57 12.9	− 95	1.016 7295	$\overline{5}$	3 57	20 11
6	642.5	18 54 26.324	1011	−12	103 33 16.2	57 13.1	− 85	1.016 7290	63	3 58	20 11
7	643.5	18 58 22.882	−1009	− 8	104 30 29.3	57 13.4	− 73	1.016 7227	123	3 59	20 10
8	644.5	19 2 19.439	1007	− 2	105 27 42.7	57 13.7	− 60	1.016 7104	186	4 0	20 9
9	645.5	19 6 15.996	1005	+ 4	106 24 56.4	57 13.8	− 46	1.016 6918	248	4 1	20 9
10	646.5	19 10 12.553	1003	+10	107 22 10.2	57 14.0	− 31	1.016 6670	310	4 2	20 8
11	647.5	19 14 9.111	1001	+14	108 19 24.2	57 14.1	− 17	1.016 6360	371	4 3	20 7
12	648.5	19 18 5.668	1000	+16	109 16 38.3	57 14.2	− 4	1.016 5989	430	4 4	20 7
13	649.5	19 22 2.225	− 998	+14	110 13 52.5	57 14.3	+ 6	1.016 5559	488	4 5	20 6
14	650.5	19 25 58.782	996	+11	111 11 6.8	57 14.4	+ 13	1.016 5071	542	4 6	20 5
15	651.5	19 29 55.339	995	+ 6	112 8 21.2	57 14.5	+ 18	1.016 4529	595	4 7	20 4
16	652.5	19 33 51.896	993	0	113 5 35.7	57 14.7	+ 20	1.016 3934	644	4 8	20 3
17	653.5	19 37 48.453	992	− 6	114 2 50.4	57 14.8	+ 20	1.016 3290	692	4 9	20 2
18	654.5	19 41 45.009	990	−10	115 0 5.2	57 14.9	+ 17	1.016 2598	737	4 10	20 1
19	655.5	19 45 41.566	− 989	−13	115 57 20.1	57 15.2	+ 11	1.016 1861	779	4 11	20 0
20	656.5	19 49 38.123	988	−14	116 54 35.3	57 15.5	+ 3	1.016 1082	820	4 13	19 59
21	657.5	19 53 34.679	986	−12	117 51 50.8	57 15.9	− 7	1.016 0262	858	4 14	19 58
22	658.5	19 57 31.236	985	− 8	118 49 6.7	57 16.2	− 18	1.015 9404	893	4 15	19 57
23	659.5	20 1 27.792	984	− 3	119 46 22.9	57 16.6	− 30	1.015 8511	926	4 16	19 56
24	660.5	20 5 24.348	− 983	+ 2	120 43 39.5		− 43	1.015 7585		4 18	19 54

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli 24	Di	−6 20.52	1.22	8 11 44.87	3 57.78	+20 0 2.3	12 33.7	67.34	15 46.59
25	Mi	6 21.74	0.64	8 15 42.65	3 57.19	19 47 28.6	12 53.3	67.26	15 46.67
26	Do	6 22.38	0.04	8 19 39.84	3 56.60	19 34 35.3	13 12.9	67.17	15 46.76
27	Fr	6 22.42	0.54	8 23 36.44	3 56.02	19 21 22.4	13 32.1	67.09	15 46.86
28	Sa	6 21.88	1.13	8 27 32.46	3 55.42	19 7 50.3	13 51.0	67.00	15 46.96
29	St	6 20.75	1.71	8 31 27.88	3 54.84	18 53 59.3	14 9.7	66.91	15 47.06
30	Mo	−6 19.04	2.30	8 35 22.72	3 54.26	+18 39 49.6	14 28.1	66.83	15 47.16
31	Di	6 16.74	2.88	8 39 16.98	3 53.68	18 25 21.5	14 46.4	66.74	15 47.27
Aug. 1	Mi	6 13.86	3.47	8 43 10.66	3 53.08	18 10 35.1	15 4.2	66.65	15 47.38
2	Do	6 10.39	4.05	8 47 3.74	3 52.51	17 55 30.9	15 21.8	66.57	15 47.50
3	Fr	6 6.34	4.64	8 50 56.25	3 51.92	17 40 9.1	15 39.1	66.48	15 47.61
4	Sa	6 1.70	5.22	8 54 48.17	3 51.33	17 24 30.0	15 56.2	66.39	15 47.74
5	St	−5 56.48	5.82	8 58 39.50	3 50.74	+17 8 33.8	16 12.9	66.31	15 47.87
6	Mo	5 50.66	6.40	9 2 30.24	3 50.15	16 52 20.9	16 29.3	66.22	15 48.01
7	Di	5 44.26	6.99	9 6 20.39	3 49.57	16 35 51.6	16 45.4	66.13	15 48.14
8	Mi	5 37.27	7.58	9 10 9.96	3 48.97	16 19 6.2	17 1.2	66.05	15 48.29
9	Do	5 29.69	8.16	9 13 58.93	3 48.39	16 2 5.0	17 16.7	65.96	15 48.44
10	Fr	5 21.53	8.75	9 17 47.32	3 47.81	15 44 48.3	17 31.8	65.88	15 48.59
11	Sa	−5 12.78	9.33	9 21 35.13	3 47.22	+15 27 16.5	17 46.7	65.80	15 48.75
12	St	5 3.45	9.91	9 25 22.35	3 46.64	15 9 29.8	18 1.2	65.72	15 48.92
13	Mo	4 53.54	10.48	9 29 8.99	3 46.08	14 51 28.6	18 15.4	65.64	15 49.09
14	Di	4 43.06	11.04	9 32 55.07	3 45.52	14 33 13.2	18 29.2	65.56	15 49.26
15	Mi	4 32.02	11.59	9 36 40.59	3 44.96	14 14 44.0	18 42.8	65.48	15 49.43
16	Do	4 20.43	12.14	9 40 25.55	3 44.42	13 56 1.2	18 56.0	65.40	15 49.62
17	Fr	−4 8.29	12.67	9 44 9.97	3 43.88	+13 37 5.2	19 8.9	65.32	15 49.80
18	Sa	3 55.62	13.20	9 47 53.85	3 43.36	13 17 56.3	19 21.5	65.25	15 49.98
19	St	3 42.42	13.70	9 51 37.21	3 42.85	12 58 34.8	19 33.8	65.17	15 50.18
20	Mo	3 28.72	14.20	9 55 20.06	3 42.36	12 39 1.0	19 45.7	65.10	15 50.37
21	Di	3 14.52	14.68	9 59 2.42	3 41.87	12 19 15.3	19 57.4	65.03	15 50.57
22	Mi	2 59.84	15.14	10 2 44.29	3 41.41	11 59 17.9	20 8.7	64.96	15 50.77
23	Do	−2 44.70	15.59	10 6 25.70	3 40.97	+11 39 9.2	20 19.7	64.90	15 50.96
24	Fr	2 29.11	16.01	10 10 6.67	3 40.54	11 18 49.5	20 30.5	64.83	15 51.16
25	Sa	2 13.10	16.42	10 13 47.21	3 40.13	10 58 19.0	20 40.9	64.77	15 51.37
26	St	1 56.68	16.82	10 17 27.34	3 39.74	10 37 38.1	20 51.0	64.71	15 51.57
27	Mo	1 39.86	17.18	10 21 7.08	3 39.37	10 16 47.1	21 0.9	64.65	15 51.78
28	Di	1 22.68	17.54	10 24 46.45	3 39.01	9 55 46.2	21 10.5	64.60	15 51.98
29	Mi	−1 5.14	17.88	10 28 25.46	3 38.68	+ 9 34 35.7	21 19.7	64.54	15 52.20
30	Do	0 47.26	18.19	10 32 4.14	3 38.36	9 13 16.0	21 28.6	64.49	15 52.41
31	Fr	0 29.07	18.50	10 35 42.50	3 38.05	8 51 47.4	21 37.2	64.44	15 52.62
Sept. 1	Sa	−0 10.57	18.80	10 39 20.55	3 37.76	8 30 10.2	21 45.5	64.39	15 52.84
2	St	+0 8.23	19.06	10 42 58.31	3 37.49	8 8 24.7	21 53.5	64.35	15 53.06
3	Mo	+0 27.29		10 46 35.80		+ 7 46 31.2		64.31	15 53.29

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1945.0 Länge		Breite	R		Aufgang	Untergang
	0ʰ Welt-Zeit									in {+50° Breite, 0ʰ Länge}	
1945	2431	h m s	in 0.001 s		° ′ ″	′ ″	in 0.″01			h m	h m
Juli 24	660.5	20 5 24.348	− 983	+ 2	120 43 39.5	57 17.3	−43	1.015 7585	958	4 18	19 54
25	661.5	20 9 20.905	982	+ 7	121 40 56.8	57 17.9	−56	1.015 6627	988	4 19	19 53
26	662.5	20 13 17.461	981	+10	122 38 14.7	57 18.6	−67	1.015 5639	1019	4 20	19 52
27	663.5	20 17 14.017	981	+10	123 35 33.3	57 19.5	−77	1.015 4620	1050	4 22	19 50
28	664.5	20 21 10.573	980	+ 8	124 32 52.8	57 20.4	−83	1.015 3570	1082	4 23	19 49
29	665.5	20 25 7.129	979	+ 3	125 30 13.2	57 21.5	−87	1.015 2488	1117	4 24	19 48
30	666.5	20 29 3.685	− 979	− 3	126 27 34.7	57 22.6	−88	1.015 1371	1154	4 26	19 46
31	667.5	20 33 0.241	978	− 8	127 24 57.3	57 23.7	−85	1.015 0217	1194	4 27	19 45
Aug. 1	668.5	20 36 56.797	978	−11	128 22 21.0	57 24.8	−78	1.014 9023	1237	4 29	19 43
2	669.5	20 40 53.352	978	−11	129 19 45.8	57 26.1	−69	1.014 7786	1284	4 30	19 42
3	670.5	20 44 49.908	977	− 9	130 17 11.9	57 27.3	−59	1.014 6502	1332	4 31	19 40
4	671.5	20 48 46.463	977	− 4	131 14 39.2	57 28.5	−46	1.014 5170	1384	4 33	19 39
5	672.5	20 52 43.019	− 977	+ 3	132 12 7.7	57 29.7	−32	1.014 3786	1436	4 34	19 37
6	673.5	20 56 39.574	977	+ 9	133 9 37.4	57 30.8	−17	1.014 2350	1490	4 36	19 35
7	674.5	21 0 36.129	977	+13	134 7 8.2	57 31.9	− 3	1.014 0860	1545	4 37	19 34
8	675.5	21 4 32.684	978	+15	135 4 40.1	57 32.9	+ 9	1.013 9315	1599	4 38	19 32
9	676.5	21 8 29.240	978	+15	136 2 13.0	57 34.1	+20	1.013 7716	1652	4 40	19 30
10	677.5	21 12 25.795	978	+12	136 59 47.1	57 35.0	+29	1.013 6064	1704	4 41	19 28
11	678.5	21 16 22.350	− 979	+ 7	137 57 22.1	57 36.0	+35	1.013 4360	1753	4 43	19 27
12	679.5	21 20 18.904	979	+ 1	138 54 58.1	57 37.0	+38	1.013 2607	1800	4 44	19 25
13	680.5	21 24 15.459	980	− 4	139 52 35.1	57 38.0	+39	1.013 0807	1845	4 46	19 23
14	681.5	21 28 12.014	981	− 9	140 50 13.1	57 39.0	+36	1.012 8962	1886	4 47	19 21
15	682.5	21 32 8.568	981	−13	141 47 52.1	57 40.0	+31	1.012 7076	1926	4 49	19 19
16	683.5	21 36 5.123	982	−14	142 45 32.1	57 41.1	+25	1.012 5150	1963	4 50	19 17
17	684.5	21 40 1.677	− 983	−13	143 43 13.2	57 42.1	+15	1.012 3187	1996	4 52	19 15
18	685.5	21 43 58.232	984	−10	144 40 55.3	57 43.2	+ 4	1.012 1191	2027	4 53	19 13
19	686.5	21 47 54.786	985	− 6	145 38 38.5	57 44.3	− 7	1.011 9164	2055	4 55	19 11
20	687.5	21 51 51.340	987	0	146 36 22.8	57 45.5	−19	1.011 7109	2079	4 56	19 9
21	688.5	21 55 47.894	988	+ 5	147 34 8.3	57 46.7	−30	1.011 5030	2101	4 58	19 7
22	689.5	21 59 44.448	989	+ 9	148 31 55.0	57 48.1	−41	1.011 2929	2120	4 59	19 6
23	690.5	22 3 41.002	− 991	+10	149 29 43.1	57 49.5	−51	1.011 0809	2137	5 1	19 4
24	691.5	22 7 37.556	992	+ 9	150 27 32.6	57 51.0	−58	1.010 8672	2154	5 2	19 2
25	692.5	22 11 34.110	994	+ 5	151 25 23.6	57 52.6	−63	1.010 6518	2172	5 4	18 59
26	693.5	22 15 30.663	995	− 1	152 23 16.2	57 54.3	−63	1.010 4346	2189	5 5	18 57
27	694.5	22 19 27.217	997	− 6	153 21 10.5	57 56.1	−61	1.010 2157	2209	5 7	18 55
28	695.5	22 23 23.771	999	−10	154 19 6.6	57 58.0	−55	1.009 9948	2231	5 8	18 53
29	696.5	22 27 20.324	−1001	−11	155 17 4.6	57 59.9	−47	1.009 7717	2256	5 10	18 51
30	697.5	22 31 16.878	1002	− 9	156 15 4.5	58 1.8	−35	1.009 5461	2283	5 11	18 49
31	698.5	22 35 13.431	1004	− 5	157 13 6.3	58 3.7	−22	1.009 3178	2314	5 13	18 47
Sept. 1	699.5	22 39 9.984	1006	+ 2	158 11 10.0	58 5.6	− 9	1.009 0864	2347	5 14	18 45
2	700.5	22 43 6.538	1009	+ 8	159 9 15.6	58 7.6	+ 6	1.008 8517	2381	5 16	18 43
3	701.5	22 47 3.091	−1011	+12	160 7 23.2		+20	1.008 6136		5 17	18 41

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung, Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 3	Mo	+ 0 27.29	19.33	10 46 35.80	3 37.22	+7 46 31.2	22 1.1	64.31	15 53.29
4	Di	0 46.62	19.58	10 50 13.02	3 36.98	7 24 30.1	22 8.4	64.27	15 53.52
5	Mi	1 6.20	19.81	10 53 50.00	3 36.74	7 2 21.7	22 15.4	64.23	15 53.75
6	Do	1 26.01	20.03	10 57 26.74	3 36.52	6 40 6.3	22 22.0	64.19	15 53.98
7	Fr	1 46.04	20.23	11 1 3.26	3 36.32	6 17 44.3	22 28.2	64.16	15 54.23
8	Sa	2 6.27	20.43	11 4 39.58	3 36.13	5 55 16.1	22 34.2	64.13	15 54.47
9	St	+ 2 26.70	20.60	11 8 15.71	3 35.95	+5 32 41.9	22 39.7	64.11	15 54.71
10	Mo	2 47.30	20.75	11 11 51.66	3 35.80	5 10 2.2	22 44.9	64.08	15 54.96
11	Di	3 8.05	20.90	11 15 27.46	3 35.66	4 47 17.3	22 49.8	64.06	15 55.22
12	Mi	3 28.95	21.02	11 19 3.12	3 35.53	4 24 27.5	22 54.4	64.05	15 55.47
13	Do	3 49.97	21.11	11 22 38.65	3 35.44	4 1 33.1	22 58.6	64.04	15 55.73
14	Fr	4 11.08	21.21	11 26 14.09	3 35.35	3 38 34.5	23 2.4	64.03	15 55.99
15	Sa	+ 4 32.29	21.27	11 29 49.44	3 35.28	+3 15 32.1	23 5.9	64.02	15 56.25
16	St	4 53.56	21.32	11 33 24.72	3 35.24	2 52 26.2	23 9.1	64.01	15 56.52
17	Mo	5 14.88	21.34	11 36 59.96	3 35.21	2 29 17.1	23 11.9	64.01	15 56.78
18	Di	5 36.22	21.34	11 40 35.17	3 35.21	2 6 5.2	23 14.4	64.01	15 57.04
19	Mi	5 57.56	21.33	11 44 10.38	3 35.22	1 42 50.8	23 16.7	64.01	15 57.31
20	Do	6 18.89	21.28	11 47 45.60	3 35.27	1 19 34.1	23 18.4	64.01	15 57.57
21	Fr	+ 6 40.17	21.21	11 51 20.87	3 35.34	+0 56 15.7	23 20.0	64.02	15 57.84
22	Sa	7 1.38	21.12	11 54 56.21	3 35.44	0 32 55.7	23 21.3	64.04	15 58.11
23	St	7 22.50	21.00	11 58 31.65	3 35.55	+0 9 34.4	23 22.3	64.06	15 58.38
24	Mo	7 43.50	20.86	12 2 7.20	3 35.70	−0 13 47.9	23 22.8	64.08	15 58.64
25	Di	8 4.36	20.69	12 5 42.90	3 35.86	0 37 10.7	23 23.1	64.10	15 58.91
26	Mi	8 25.05	20.49	12 9 18.76	3 36.05	1 0 33.8	23 23.1	64.12	15 59.18
27	Do	+ 8 45.54	20.29	12 12 54.81	3 36.27	−1 23 56.9	23 22.8	64.15	15 59.45
28	Fr	9 5.83	20.05	12 16 31.08	3 36.50	1 47 19.7	23 22.1	64.18	15 59.71
29	Sa	9 25.88	19.80	12 20 7.58	3 36.76	2 10 41.8	23 21.1	64.21	15 59.97
30	St	9 45.68	19.52	12 23 44.34	3 37.03	2 34 2.9	23 19.7	64.24	16 0.24
Okt. 1	Mo	10 5.20	19.23	12 27 21.37	3 37.32	2 57 22.6	23 18.0	64.28	16 0.51
2	Di	10 24.43	18.93	12 30 58.69	3 37.63	3 20 40.6	23 15.8	64.33	16 0.78
3	Mi	+10 43.36	18.60	12 34 36.32	3 37.95	−3 43 56.4	23 13.4	64.37	16 1.05
4	Do	11 1.96	18.25	12 38 14.27	3 38.30	4 7 9.8	23 10.5	64.42	16 1.32
5	Fr	11 20.21	17.89	12 41 52.57	3 38.66	4 30 20.3	23 7.3	64.47	16 1.59
6	Sa	11 38.10	17.52	12 45 31.23	3 39.04	4 53 27.6	23 3.7	64.53	16 1.87
7	St	11 55.62	17.12	12 49 10.27	3 39.43	5 16 31.3	22 59.7	64.59	16 2.15
8	Mo	12 12.74	16.71	12 52 49.70	3 39.84	5 39 31.0	22 55.3	64.65	16 2.43
9	Di	+12 29.45	16.29	12 56 29.54	3 40.27	−6 2 26.3	22 50.6	64.71	16 2.71
10	Mi	12 45.74	15.84	13 0 9.81	3 40.71	6 25 16.9	22 45.4	64.77	16 2.99
11	Do	13 1.58	15.37	13 3 50.52	3 41.18	6 48 2.3	22 39.8	64.84	16 3.27
12	Fr	13 16.95	14.90	13 7 31.70	3 41.65	7 10 42.1	22 33.9	64.91	16 3.55
13	Sa	13 31.85	14.40	13 11 13.35	3 42.15	7 33 16.0	22 27.5	64.99	16 3.83
14	St	+13 46.25		13 14 55.50		−7 55 43.5		65.06	16 4.11

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	0ʰ Welt-Zeit — Mittleres Äquinoktium 1945.0 Länge		Breite	R		Aufgang in {+50° Breite, 0ʰ Länge}	Untergang in {+50° Breite, 0ʰ Länge}
1945	2431	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Sept. 3	701.5	22 47 3.091	−1011	+12	160 7 23.2	58 9.4	+20	1.008 6136	2417	5 17	18 41
4	702.5	22 50 59.644	1013	+15	161 5 32.6	58 11.3	+33	1.008 3719	2454	5 19	18 39
5	703.5	22 54 56.197	1015	+15	162 3 43.9	58 13.1	+44	1.008 1265	2491	5 20	18 36
6	704.5	22 58 52.750	1017	+13	163 1 57.0	58 14.9	+53	1.007 8774	2527	5 22	18 34
7	705.5	23 2 49.303	1020	+ 9	164 0 11.9	58 16.6	+58	1.007 6247	2563	5 23	18 32
8	706.5	23 6 45.856	1022	+ 3	164 58 28.5	58 18.3	+62	1.007 3684	2596	5 25	18 30
9	707.5	23 10 42.409	−1024	− 2	165 56 46.8	58 20.0	+63	1.007 1088	2629	5 26	18 28
10	708.5	23 14 38.962	1027	− 7	166 55 6.8	58 21.7	+62	1.006 8459	2660	5 28	18 25
11	709.5	23 18 35.515	1029	−11	167 53 28.5	58 23.2	+57	1.006 5799	2687	5 29	18 23
12	710.5	23 22 32.068	1032	−14	168 51 51.7	58 24.9	+51	1.006 3112	2713	5 31	18 21
13	711.5	23 26 28.621	1035	−14	169 50 16.6	58 26.5	+43	1.006 0399	2734	5 32	18 19
14	712.5	23 30 25.173	1037	−12	170 48 43.1	58 28.2	+32	1.005 7665	2754	5 34	18 17
15	713.5	23 34 21.726	−1040	− 8	171 47 11.3	58 29.7	+21	1.005 4911	2771	5 35	18 15
16	714.5	23 38 18.279	1042	− 3	172 45 41.0	58 31.3	+ 9	1.005 2140	2783	5 37	18 12
17	715.5	23 42 14.831	1045	+ 3	173 44 12.3	58 33.0	− 2	1.004 9357	2793	5 38	18 10
18	716.5	23 46 11.384	1048	+ 7	174 42 45.3	58 34.7	−13	1.004 6564	2798	5 40	18 8
19	717.5	23 50 7.937	1051	+ 9	175 41 20.0	58 36.5	−22	1.004 3766	2801	5 41	18 6
20	718.5	23 54 4.489	1053	+ 9	176 39 56.5	58 38.2	−29	1.004 0965	2799	5 43	18 4
21	719.5	23 58 1.042	−1056	+ 5	177 38 34.7	58 40.1	−34	1.003 8166	2796	5 44	18 1
22	720.5	0 1 57.595	1059	0	178 37 14.8	58 42.1	−35	1.003 5370	2791	5 46	17 59
23	721.5	0 5 54.147	1061	− 5	179 35 56.9	58 44.1	−34	1.003 2579	2787	5 47	17 57
24	722.5	0 9 50.700	1064	− 9	180 34 41.0	58 46.3	−29	1.002 9792	2782	5 49	17 55
25	723.5	0 13 47.252	1067	−11	181 33 27.3	58 48.5	−22	1.002 7010	2779	5 50	17 53
26	724.5	0 17 43.805	1070	−10	182 32 15.8	58 50.8	−11	1.002 4231	2780	5 52	17 50
27	725.5	0 21 40.358	−1072	− 6	183 31 6.6	58 53.1	+ 2	1.002 1451	2782	5 53	17 48
28	726.5	0 25 36.910	1075	0	184 29 59.7	58 55.4	+15	1.001 8669	2786	5 55	17 46
29	727.5	0 29 33.463	1078	+ 7	185 28 55.1	58 57.7	+30	1.001 5883	2793	5 56	17 44
30	728.5	0 33 30.016	1080	+12	186 27 52.8	59 0.0	+44	1.001 3090	2803	5 58	17 42
Okt. 1	729.5	0 37 26.569	1083	+16	187 26 52.8	59 2.3	+56	1.001 0287	2813	5 59	17 40
2	730.5	0 41 23.121	1086	+17	188 25 55.1	59 4.5	+68	1.000 7474	2825	6 1	17 37
3	731.5	0 45 19.674	−1088	+14	189 24 59.6	59 6.8	+77	1.000 4649	2838	6 2	17 35
4	732.5	0 49 16.227	1091	+11	190 24 6.4	59 8.8	+83	1.000 1811	2852	6 4	17 33
5	733.5	0 53 12.780	1093	+ 5	191 23 15.2	59 11.0	+87	0.999 8959	2864	6 5	17 31
6	734.5	0 57 9.333	1096	0	192 22 26.2	59 13.0	+87	0.999 6095	2876	6 7	17 29
7	735.5	1 1 5.885	1098	− 6	193 21 39.2	59 15.1	+86	0.999 3219	2887	6 8	17 27
8	736.5	1 5 2.438	1101	−10	194 20 54.3	59 16.9	+82	0.999 0332	2896	6 10	17 24
9	737.5	1 8 58.991	−1103	−12	195 20 11.2	59 18.9	+75	0.998 7436	2903	6 12	17 22
10	738.5	1 12 55.545	1105	−13	196 19 30.1	59 20.8	+67	0.998 4533	2909	6 13	17 20
11	739.5	1 16 52.098	1108	−12	197 18 50.9	59 22.6	+57	0.998 1624	2912	6 15	17 18
12	740.5	1 20 48.651	1110	− 9	198 18 13.5	59 24.4	+46	0.997 8712	2912	6 16	17 16
13	741.5	1 24 45.204	1112	− 5	199 17 37.9	59 26.2	+34	0.997 5800	2909	6 18	17 14
14	742.5	1 28 41.757	−1114	0	200 17 4.1		+22	0.997 2891		6 20	17 12

Sonne 1945

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung, Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ' "	' "	s	' "
Okt. 14	St	+13 46.25	13.89	13 14 55.50	3 42.67	— 7 55 43.5	22 20.9	65.06	16 4.11
15	Mo	14 0.14	13.36	13 18 38.17	3 43.19	8 18 4.4	22 13.7	65.14	16 4.39
16	Di	14 13.50	12.81	13 22 21.36	3 43.75	8 40 18.1	22 6.3	65.23	16 4.67
17	Mi	14 26.31	12.24	13 26 5.11	3 44.31	9 2 24.4	21 58.4	65.31	16 4.95
18	Do	14 38.55	11.66	13 29 49.42	3 44.90	9 24 22.8	21 50.1	65.40	16 5.23
19	Fr	14 50.21	11.05	13 33 34.32	3 45.50	9 46 12.9	21 41.5	65.49	16 5.51
20	Sa	+15 1.26	10.42	13 37 19.82	3 46.14	—10 7 54.4	21 32.6	65.58	16 5.78
21	St	15 11.68	9.77	13 41 5.96	3 46.78	10 29 27.0	21 23.2	65.68	16 6.05
22	Mo	15 21.45	9.10	13 44 52.74	3 47.45	10 50 50.2	21 13.5	65.77	16 6.32
23	Di	15 30.55	8.41	13 48 40.19	3 48.15	11 12 3.7	21 3.5	65.87	16 6.58
24	Mi	15 38.96	7.70	13 52 28.34	3 48.85	11 33 7.2	20 53.1	65.97	16 6.85
25	Do	15 46.66	6.98	13 56 17.19	3 49.57	11 54 0.3	20 42.2	66.07	16 7.11
26	Fr	+15 53.64	6.23	14 0 6.76	3 50.32	—12 14 42.5	20 31.0	66.17	16 7.36
27	Sa	15 59.87	5.48	14 3 57.08	3 51.08	12 35 13.5	20 19.5	66.28	16 7.62
28	St	16 5.35	4.71	14 7 48.16	3 51.84	12 55 33.0	20 7.5	66.38	16 7.87
29	Mo	16 10.06	3.94	14 11 40.00	3 52.62	13 15 40.5	19 55.1	66.49	16 8.12
30	Di	16 14.00	3.14	14 15 32.62	3 53.41	13 35 35.6	19 42.4	66.60	16 8.38
31	Mi	16 17.14	2.35	14 19 26.03	3 54.21	13 55 18.0	19 29.1	66.71	16 8.62
Nov. 1	Do	+16 19.49	1.54	14 23 20.24	3 55.01	—14 14 47.1	19 15.5	66.83	16 8.87
2	Fr	16 21.03	0.74	14 27 15.25	3 55.82	14 34 2.6	19 1.4	66.94	16 9.12
3	Sa	16 21.77	0.09	14 31 11.07	3 56.64	14 53 4.0	18 47.0	67.05	16 9.36
4	St	16 21.68	0.90	14 35 7.71	3 57.46	15 11 51.0	18 32.0	67.17	16 9.60
5	Mo	16 20.78	1.72	14 39 5.17	3 58.28	15 30 23.0	18 16.7	67.29	16 9.85
6	Di	16 19.06	2.56	14 43 3.45	3 59.12	15 48 39.7	18 0.9	67.40	16 10.09
7	Mi	+16 16.50	3.39	14 47 2.57	3 59.94	—16 6 40.6	17 44.8	67.52	16 10.33
8	Do	16 13.11	4.22	14 51 2.51	4 0.77	16 24 25.4	17 28.2	67.64	16 10.57
9	Fr	16 8.89	5.05	14 55 3.28	4 1.61	16 41 53.6	17 11.2	67.76	16 10.81
10	Sa	16 3.84	5.89	14 59 4.89	4 2.44	16 59 4.8	16 53.7	67.88	16 11.05
11	St	15 57.95	6.72	15 3 7.33	4 3.27	17 15 58.5	16 35.9	68.00	16 11.28
12	Mo	15 51.23	7.54	15 7 10.60	4 4.11	17 32 34.4	16 17.6	68.12	16 11.51
13	Di	+15 43.69	8.38	15 11 14.71	4 4.93	—17 48 52.0	15 59.0	68.24	16 11.74
14	Mi	15 35.31	9.20	15 15 19.64	4 5.76	18 4 51.0	15 39.9	68.36	16 11.97
15	Do	15 26.11	10.04	15 19 25.40	4 6.59	18 20 30.9	15 20.5	68.48	16 12.19
16	Fr	15 16.07	10.85	15 23 31.99	4 7.41	18 35 51.4	15 0.6	68.60	16 12.41
17	Sa	15 5.22	11.68	15 27 39.40	4 8.23	18 50 52.0	14 40.5	68.71	16 12.62
18	St	14 53.54	12.50	15 31 47.63	4 9.06	19 5 32.5	14 20.0	68.83	16 12.83
19	Mo	+14 41.04	13.32	15 35 56.69	4 9.88	—19 19 52.5	13 59.0	68.94	16 13.04
20	Di	14 27.72	14.14	15 40 6.57	4 10.69	19 33 51.5	13 37.8	69.06	16 13.24
21	Mi	14 13.58	14.95	15 44 17.26	4 11.51	19 47 29.3	13 16.3	69.17	16 13.43
22	Do	13 58.63	15.77	15 48 28.77	4 12.33	20 0 45.6	12 54.3	69.28	16 13.62
23	Fr	13 42.86	16.57	15 52 41.10	4 13.12	20 13 39.9	12 32.1	69.39	16 13.81
24	Sa	+13 26.29		15 56 54.22		—20 26 12.0		69.50	16 14.00

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1945.0 Länge		Breite	R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1945	2431	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Okt. 14	742.5	1 28 41.757	−1114	0	200 17 4.1	59 27.9	+ 22	0.997 2891	2903	6 20	17 12
15	743.5	1 32 38.311	1116	+ 5	201 16 32.0	59 29.7	+ 11	0.996 9988	2894	6 21	17 10
16	744.5	1 36 34.864	1118	+ 8	202 16 1.7	59 31.4	+ 2	0.996 7094	2880	6 23	17 8
17	745.5	1 40 31.417	1120	+ 8	203 15 33.1	59 33.2	− 6	0.996 4214	2863	6 24	17 6
18	746.5	1 44 27.971	1122	+ 6	204 15 6.3	59 34.9	− 11	0.996 1351	2841	6 26	17 4
19	747.5	1 48 24.525	1123	+ 1	205 14 41.2	59 36.8	− 13	0.995 8510	2816	6 28	17 2
20	748.5	1 52 21.078	−1125	− 4	206 14 18.0	59 38.7	− 11	0.995 5694	2789	6 29	17 0
21	749.5	1 56 17.632	1127	− 9	207 13 56.7	59 40.7	− 7	0.995 2905	2759	6 31	16 58
22	750.5	2 0 14.186	1128	−12	208 13 37.4	59 42.7	0	0.995 0146	2730	6 33	16 56
23	751.5	2 4 10.740	1130	−12	209 13 20.1	59 44.8	+ 11	0.994 7416	2700	6 34	16 54
24	752.5	2 8 7.294	1131	− 8	210 13 4.9	59 47.0	+ 23	0.994 4716	2672	6 36	16 52
25	753.5	2 12 3.848	1132	− 3	211 12 51.9	59 49.2	+ 37	0.994 2044	2646	6 38	16 50
26	754.5	2 16 0.402	−1133	+ 5	212 12 41.1	59 51.4	+ 52	0.993 9398	2623	6 39	16 48
27	755.5	2 19 56.957	1134	+11	213 12 32.5	59 53.7	+ 65	0.993 6775	2601	6 41	16 47
28	756.5	2 23 53.511	1135	+16	214 12 26.2	59 55.9	+ 78	0.993 4174	2583	6 43	16 45
29	757.5	2 27 50.066	1136	+17	215 12 22.1	59 58.1	+ 91	0.993 1591	2565	6 44	16 43
30	758.5	2 31 46.620	1137	+16	216 12 20.2	60 0.2	+100	0.992 9026	2551	6 46	16 41
31	759.5	2 35 43.175	1138	+13	217 12 20.4	60 2.4	+107	0.992 6475	2537	6 47	16 39
Nov. 1	760.5	2 39 39.730	−1138	+ 8	218 12 22.8	60 4.4	+110	0.992 3938	2524	6 49	16 38
2	761.5	2 43 36.284	1139	+ 2	219 12 27.2	60 6.4	+111	0.992 1414	2511	6 51	16 36
3	762.5	2 47 32.839	1139	− 4	220 12 33.6	60 8.3	+109	0.991 8903	2500	6 52	16 34
4	763.5	2 51 29.394	1140	− 8	221 12 41.9	60 10.2	+105	0.991 6403	2486	6 54	16 33
5	764.5	2 55 25.950	1140	−11	222 12 52.1	60 12.0	+ 99	0.991 3917	2474	6 56	16 31
6	765.5	2 59 22.505	1140	−12	223 13 4.1	60 13.7	+ 90	0.991 1443	2459	6 57	16 29
7	766.5	3 3 19.060	−1140	−12	224 13 17.8	60 15.4	+ 80	0.990 8984	2444	6 59	16 28
8	767.5	3 7 15.615	1140	− 9	225 13 33.2	60 17.0	+ 68	0.990 6540	2426	7 1	16 26
9	768.5	3 11 12.171	1140	− 5	226 13 50.2	60 18.6	+ 56	0.990 4114	2407	7 2	16 25
10	769.5	3 15 8.727	1139	− 1	227 14 8.8	60 20.0	+ 43	0.990 1707	2386	7 4	16 23
11	770.5	3 19 5.282	1139	+ 4	228 14 28.8	60 21.5	+ 32	0.989 9321	2361	7 6	16 22
12	771.5	3 23 1.838	1139	+ 7	229 14 50.3	60 22.9	+ 21	0.989 6960	2334	7 7	16 20
13	772.5	3 26 58.394	−1138	+ 8	230 15 13.2	60 24.2	+ 13	0.989 4626	2302	7 9	16 19
14	773.5	3 30 54.950	1137	+ 6	231 15 37.4	60 25.5	+ 7	0.989 2324	2266	7 11	16 18
15	774.5	3 34 51.506	1137	+ 2	232 16 2.9	60 26.9	+ 4	0.989 0058	2227	7 12	16 16
16	775.5	3 38 48.062	1136	− 3	233 16 29.8	60 28.2	+ 4	0.988 7831	2184	7 14	16 15
17	776.5	3 42 44.619	1135	− 9	234 16 58.0	60 29.5	+ 8	0.988 5647	2138	7 16	16 14
18	777.5	3 46 41.175	1134	−13	235 17 27.5	60 31.0	+ 15	0.988 3509	2088	7 17	16 13
19	778.5	3 50 37.732	−1133	−14	236 17 58.5	60 32.4	+ 25	0.988 1421	2038	7 19	16 12
20	779.5	3 54 34.288	1131	−12	237 18 30.9	60 33.9	+ 37	0.987 9383	1985	7 20	16 11
21	780.5	3 58 30.845	1130	− 6	238 19 4.8	60 35.4	+ 51	0.987 7398	1934	7 22	16 10
22	781.5	4 2 27.402	1129	+ 1	239 19 40.2	60 37.1	+ 64	0.987 5464	1883	7 23	16 9
23	782.5	4 6 23.959	1127	+ 8	240 20 17.3	60 38.7	+ 78	0.987 3581	1835	7 25	16 8
24	783.5	4 10 20.516	−1126	+14	241 20 56.0		+ 92	0.987 1746		7 26	16 7

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung, Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1945		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Nov. 24	Sa	+13 26.29	17.36	15 56 54.22	4 13.92	−20 26 12.0	12 9.5	69.50	16 14.00
25	St	13 8.93	18.14	16 1 8.14	4 14.70	20 38 21.5	11 46.5	69.61	16 14.17
26	Mo	12 50.79	18.91	16 5 22.84	4 15.47	20 50 8.0	11 23.4	69.71	16 14.34
27	Di	12 31.88	19.66	16 9 38.31	4 16.22	21 1 31.4	10 59.7	69.81	16 14.51
28	Mi	12 12.22	20.39	16 13 54.53	4 16.94	21 12 31.1	10 35.7	69.91	16 14.68
29	Do	11 51.83	21.10	16 18 11.47	4 17.66	21 23 6.8	10 11.6	70.01	16 14.84
30	Fr	+11 30.73	21.80	16 22 29.13	4 18.35	−21 33 18.4	9 47.0	70.10	16 14.99
Dez. 1	Sa	11 8.93	22.46	16 26 47.48	4 19.02	21 43 5.4	9 22.1	70.20	16 15.14
2	St	10 46.47	23.11	16 31 6.50	4 19.67	21 52 27.5	8 57.0	70.28	16 15.30
3	Mo	10 23.36	23.73	16 35 26.17	4 20.29	22 1 24.5	8 31.5	70.36	16 15.45
4	Di	9 59.63	24.32	16 39 46.46	4 20.88	22 9 56.0	8 5.8	70.44	16 15.59
5	Mi	9 35.31	24.88	16 44 7.34	4 21.44	22 18 1.8	7 39.9	70.52	16 15.73
6	Do	+ 9 10.43	25.42	16 48 28.78	4 21.98	−22 25 41.7	7 13.6	70.60	16 15.86
7	Fr	8 45.01	25.93	16 52 50.76	4 22.48	22 32 55.3	6 47.2	70.67	16 16.00
8	Sa	8 19.08	26.40	16 57 13.24	4 22.96	22 39 42.5	6 20.4	70.74	16 16.13
9	St	7 52.68	26.85	17 1 36.20	4 23.41	22 46 2.9	5 53.6	70.81	16 16.26
10	Mo	7 25.83	27.26	17 5 59.61	4 23.81	22 51 56.5	5 26.4	70.87	16 16.39
11	Di	6 58.57	27.64	17 10 23.42	4 24.20	22 57 22.9	4 59.2	70.92	16 16.51
12	Mi	+ 6 30.93	27.98	17 14 47.62	4 24.54	−23 2 22.1	4 31.7	70.97	16 16.63
13	Do	6 2.95	28.30	17 19 12.16	4 24.86	23 6 53.8	4 4.1	71.02	16 16.74
14	Fr	5 34.65	28.59	17 23 37.02	4 25.15	23 10 57.9	3 36.4	71.06	16 16.85
15	Sa	5 6.06	28.84	17 28 2.17	4 25.40	23 14 34.3	3 8.5	71.10	16 16.95
16	St	4 37.22	29.07	17 32 27.57	4 25.62	23 17 42.8	2 40.6	71.14	16 17.04
17	Mo	4 8.15	29.26	17 36 53.19	4 25.82	23 20 23.4	2 12.6	71.17	16 17.13
18	Di	+ 3 38.89	29.43	17 41 19.01	4 25.99	−23 22 36.0	1 44.5	71.20	16 17.22
19	Mi	3 9.46	29.58	17 45 45.00	4 26.14	23 24 20.5	1 16.4	71.22	16 17.30
20	Do	2 39.88	29.68	17 50 11.14	4 26.24	23 25 36.9	0 48.2	71.23	16 17.37
21	Fr	2 10.20	29.77	17 54 37.38	4 26.33	23 26 25.1	0 19.9	71.24	16 17.44
22	Sa	1 40.43	29.82	17 59 3.71	4 26.38	23 26 45.0	0 8.2	71.25	16 17.50
23	St	1 10.61	29.85	18 3 30.09	4 26.40	23 26 36.8	0 36.5	71.26	16 17.55
24	Mo	+ 0 40.76	29.84	18 7 56.49	4 26.40	−23 26 0.3	1 4.7	71.26	16 17.60
25	Di	+ 0 10.92	29.79	18 12 22.89	4 26.35	23 24 55.6	1 32.9	71.25	16 17.64
26	Mi	− 0 18.87	29.71	18 16 49.24	4 26.27	23 23 22.7	2 1.1	71.24	16 17.67
27	Do	0 48.58	29.60	18 21 15.51	4 26.16	23 21 21.6	2 29.2	71.22	16 17.70
28	Fr	1 18.18	29.46	18 25 41.67	4 26.01	23 18 52.4	2 57.3	71.20	16 17.73
29	Sa	1 47.64	29.27	18 30 7.68	4 25.83	23 15 55.1	3 25.3	71.17	16 17.75
30	St	− 2 16.91	29.06	18 34 33.51	4 25.62	−23 12 29.8	3 53.1	71.14	16 17.77
31	Mo	2 45.97	28.80	18 38 59.13	4 25.36	23 8 36.7	4 21.0	71.11	16 17.78
32	Di	− 3 14.77		18 43 24.49		−23 4 15.7		71.07	16 17.79

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1945.0 Länge		Breite	R		Aufgang (in +50° Breite, 0h Länge)	Untergang (in +50° Breite, 0h Länge)
1945	2431	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Nov. 24	783.5	4 10 20.516	−1126	+14	241 20 56.0	60 40.4	+ 92	0.987 1746	1789	7 26	16 7
25	784.5	4 14 17.073	1124	+18	242 21 36.4	60 41.9	+103	0.986 9957	1745	7 28	16 6
26	785.5	4 18 13.630	1122	+18	243 22 18.3	60 43.6	+113	0.986 8212	1705	7 29	16 5
27	786.5	4 22 10.187	1120	+15	244 23 1.9	60 45.2	+120	0.986 6507	1665	7 31	16 4
28	787.5	4 26 6.744	1118	+10	245 23 47.1	60 46.7	+125	0.986 4842	1628	7 32	16 3
29	788.5	4 30 3.302	1116	+ 4	246 24 33.8	60 48.2	+127	0.986 3214	1593	7 34	16 3
30	789.5	4 33 59.859	−1114	− 2	247 25 22.0	60 49.5	+125	0.986 1621	1559	7 35	16 2
Dez. 1	790.5	4 37 56.417	1112	− 7	248 26 11.5	60 50.9	+121	0.986 0062	1526	7 36	16 1
2	791.5	4 41 52.974	1110	−10	249 27 2.4	60 52.2	+114	0.985 8536	1493	7 38	16 1
3	792.5	4 45 49.532	1108	−12	250 27 54.6	60 53.4	+105	0.985 7043	1462	7 39	16 0
4	793.5	4 49 46.090	1105	−11	251 28 48.0	60 54.5	+ 94	0.985 5581	1430	7 40	16 0
5	794.5	4 53 42.647	1103	− 9	252 29 42.5	60 55.5	+ 83	0.985 4151	1398	7 41	15 59
6	795.5	4 57 39.205	−1100	− 6	253 30 38.0	60 56.5	+ 70	0.985 2753	1366	7 43	15 59
7	796.5	5 1 35.763	1098	− 1	254 31 34.5	60 57.4	+ 56	0.985 1387	1332	7 44	15 59
8	797.5	5 5 32.321	1095	+ 3	255 32 31.9	60 58.1	+ 44	0.985 0055	1297	7 45	15 59
9	798.5	5 9 28.879	1093	+ 7	256 33 30.0	60 58.8	+ 33	0.984 8758	1260	7 46	15 58
10	799.5	5 13 25.437	1090	+ 9	257 34 28.8	60 59.4	+ 23	0.984 7498	1221	7 47	15 58
11	800.5	5 17 21.995	1087	+ 8	258 35 28.2	61 0.1	+ 15	0.984 6277	1178	7 48	15 58
12	801.5	5 21 18.553	−1085	+ 4	259 36 28.3	61 0.5	+ 10	0.984 5099	1132	7 49	15 58
13	802.5	5 25 15.111	1082	− 1	260 37 28.8	61 0.9	+ 10	0.984 3967	1083	7 50	15 58
14	803.5	5 29 11.670	1079	− 7	261 38 29.7	61 1.4	+ 12	0.984 2884	1030	7 51	15 58
15	804.5	5 33 8.228	1076	−12	262 39 31.1	61 1.9	+ 17	0.984 1854	973	7 52	15 58
16	805.5	5 37 4.786	1073	−15	263 40 33.0	61 2.3	+ 25	0.984 0881	914	7 53	15 59
17	806.5	5 41 1.344	1070	−14	264 41 35.3	61 2.7	+ 36	0.983 9967	852	7 53	15 59
18	807.5	5 44 57.903	−1067	− 9	265 42 38.0	61 3.3	+ 49	0.983 9115	787	7 54	15 59
19	808.5	5 48 54.461	1064	− 3	266 43 41.3	61 3.8	+ 63	0.983 8328	723	7 55	15 59
20	809.5	5 52 51.019	1061	+ 5	267 44 45.1	61 4.4	+ 77	0.983 7605	658	7 55	16 0
21	810.5	5 56 47.577	1059	+12	268 45 49.5	61 5.0	+ 90	0.983 6947	595	7 56	16 0
22	811.5	6 0 44.136	1056	+16	269 46 54.5	61 5.7	+102	0.983 6352	533	7 56	16 1
23	812.5	6 4 40.694	1053	+18	270 48 0.2	61 6.3	+112	0.983 5819	475	7 57	16 1
24	813.5	6 8 37.252	−1050	+16	271 49 6.5	61 7.0	+120	0.983 5344	419	7 57	16 2
25	814.5	6 12 33.811	1047	+12	272 50 13.5	61 7.6	+124	0.983 4925	365	7 58	16 3
26	815.5	6 16 30.369	1044	+ 6	273 51 21.1	61 8.1	+125	0.983 4560	314	7 58	16 3
27	816.5	6 20 26.927	1041	0	274 52 29.2	61 8.7	+124	0.983 4246	264	7 58	16 4
28	817.5	6 24 23.486	1038	− 5	275 53 37.9	61 9.1	+121	0.983 3982	218	7 59	16 5
29	818.5	6 28 20.044	1035	− 9	276 54 47.0	61 9.6	+114	0.983 3764	173	7 59	16 6
30	819.5	6 32 16.602	−1032	−12	277 55 56.6	61 9.9	+105	0.983 3591	130	7 59	16 6
31	820.5	6 36 13.160	1029	−12	278 57 6.5	61 10.2	+ 94	0.983 3461	89	7 59	16 7
32	821.5	6 40 9.718	−1027	−10	279 58 16.7		+ 82	0.983 3372		7 59	16 8

0^h Welt-Zeit	Mittleres Äquinoktium 1945.0											
	X			ΔX*)	*Y*			ΔY*)	*Z*			ΔZ*)
1945												
Jan. 0	+0.157 386	+17 233	− 48	+3	−0.890 448	+ 2 716	+275	−5	−0.386 189	+1 179	+120	−1
1	0.174 619	17 180	53	+2	0.887 732	2 991	275	−2	0.385 010	1 298	119	−3
2	0.191 799	17 120	60	−5	0.884 741	3 266	275	+3	0.383 712	1 417	119	−3
3	0.208 919	17 057	63	+3	0.881 475	3 540	274	+4	0.382 295	1 535	118	−4
4	0.225 976	16 989	68	+4	0.877 935	3 813	273	+3	0.380 760	1 654	119	+3
5	0.242 965	16 914	75	−4	0.874 122	4 085	272	+2	0.379 106	1 772	118	+3
6	+0.259 879	+16 834	− 80	−3	−0.870 037	+ 4 356	+271	+3	−0.377 334	+1 889	+117	+2
7	0.276 713	16 750	84	+3	0.865 681	4 626	270	+4	0.375 445	2 006	117	+3
8	0.293 463	16 660	90	+4	0.861 055	4 895	269	+4	0.373 439	2 123	117	+5
9	0.310 123	16 565	95	+2	0.856 160	5 162	267	+1	0.371 316	2 238	115	0
10	0.326 688	16 463	102	−3	0.850 998	5 428	266	+4	0.369 078	2 354	116	+5
11	0.343 151	16 358	105	+3	0.845 570	5 693	265	+5	0.366 724	2 468	114	+1
12	+0.359 509	+16 246	−112	−2	−0.839 877	+ 5 956	+263	+1	−0.364 256	+2 583	+115	+5
13	0.375 755	16 129	117	−4	0.833 921	6 216	260	−3	0.361 673	2 695	112	−2
14	0.391 884	16 006	123	−5	0.827 705	6 475	259	0	0.358 978	2 807	112	−1
15	0.407 890	15 878	128	−3	0.821 230	6 732	257	+1	0.356 171	2 919	112	+5
16	0.423 768	15 746	132	+1	0.814 498	6 986	254	0	0.353 252	3 030	111	+5
17	0.439 514	15 607	139	−4	0.807 512	7 237	251	−1	0.350 222	3 138	108	−4
18	+0.455 121	+15 464	−143	−2	−0.800 275	+ 7 487	+250	+5	−0.347 084	+3 247	+109	+1
19	0.470 585	15 316	148	0	0.792 788	7 732	245	−2	0.343 837	3 353	106	−4
20	0.485 901	15 164	152	+3	0.785 056	7 976	244	+3	0.340 484	3 459	106	+1
21	0.501 065	15 006	158	−1	0.777 080	8 216	240	+3	0.337 025	3 564	105	+3
22	0.516 071	14 846	160	+4	0.768 864	8 454	238	+5	0.333 461	3 667	103	−2
23	0.530 917	14 679	167	−5	0.760 410	8 689	235	+3	0.329 794	3 768	101	−4
24	+0.545 596	+14 510	−169	+1	−0.751 721	+ 8 920	+231	−4	−0.326 026	+3 869	+101	+3
25	0.560 106	14 336	174	−3	0.742 801	9 148	228	−4	0.322 157	3 969	100	+4
26	0.574 442	14 158	178	−4	0.733 653	9 375	227	+3	0.318 188	4 066	97	0
27	0.588 600	13 976	182	−3	0.724 278	9 598	223	0	0.314 122	4 164	98	+4
28	0.602 576	13 791	185	−1	0.714 680	9 818	220	−2	0.309 958	4 258	94	−3
29	0.616 367	13 600	191	−5	0.704 862	10 035	217	−3	0.305 700	4 353	95	+3
30	+0.629 967	+13 407	−193	+2	−0.694 827	+10 250	+215	−1	−0.301 347	+4 446	+ 93	+3
31	0.643 374	13 210	197	+4	0.684 577	10 461	211	−3	0.296 901	4 537	91	+1
Febr. 1	0.656 584	13 008	202	−2	0.674 116	10 669	208	−2	0.292 364	4 628	91	+4
2	0.669 592	12 802	206	−3	0.663 447	10 875	206	+3	0.287 736	4 716	88	−1
3	0.682 394	12 593	209	+3	0.652 572	11 077	202	+1	0.283 020	4 804	88	+4
4	0.694 987	12 380	213	+2	0.641 495	11 275	198	−2	0.278 216	4 890	86	+2
5	+0.707 367	+12 162	−218	−1	−0.630 220	+11 472	+197	+5	−0.273 326	+4 975	+ 85	+3
6	0.719 529	11 942	220	+3	0.618 748	11 663	191	−4	0.268 351	5 058	83	+1
7	0.731 471	11 716	226	−3	0.607 085	11 852	189	−1	0.263 293	5 139	81	−2
8	0.743 187	11 488	228	+3	0.595 233	12 036	184	−4	0.258 154	5 220	81	+4
9	0.754 675	+11 256	232	+1	0.583 197	+12 218	182	+3	0.252 934	+5 298	78	0
10	+0.765 931		−237	−5	−0.570 979		+177	+1	−0.247 636		+ 77	+3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1945.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Febr. 10	+0.765 931	+11 019	−237	−5	−0.570 979	+12 395	+177	+1	−0.247 636	+5 375	+77	+3
11	0.776 950	10 779	240	−3	0.558 584	12 569	174	+2	0.242 261	5 451	76	+3
12	0.787 729	10 536	243	−1	0.546 015	12 737	168	−4	0.236 810	5 523	72	−4
13	0.798 265	10 289	247	−3	0.533 278	12 902	165	0	0.231 287	5 595	72	+3
14	0.808 554	10 038	251	−4	0.520 376	13 063	161	+1	0.225 692	5 665	70	+4
15	0.818 592	9 786	252	+3	0.507 313	13 218	155	−3	0.220 027	5 733	68	+2
16	+0.828 378	+ 9 530	−256	+1	−0.494 095	+13 369	+151	−1	−0.214 294	+5 798	+65	−2
17	0.837 908	9 271	259	−1	0.480 726	13 516	147	+1	0.208 496	5 862	64	+1
18	0.847 179	9 011	260	+2	0.467 210	13 658	142	+1	0.202 634	5 924	62	+2
19	0.856 190	8 747	264	−3	0.453 552	13 795	137	−1	0.196 710	5 983	59	−1
20	0.864 937	8 482	265	0	0.439 757	13 929	134	+4	0.190 727	6 042	59	+4
21	0.873 419	8 215	267	+1	0.425 828	14 057	128	0	0.184 685	6 097	55	−2
22	+0.881 634	+ 7 945	−270	−3	−0.411 771	+14 182	+125	+3	−0.178 588	+6 151	+54	+1
23	0.889 579	7 674	271	0	0.397 589	14 302	120	−2	0.172 437	6 204	53	+4
24	0.897 253	7 401	273	+2	0.383 287	14 417	115	−5	0.166 233	6 253	49	−3
25	0.904 654	7 127	274	+4	0.368 870	14 529	112	−3	0.159 980	6 302	49	+1
26	0.911 781	6 849	278	−2	0.354 341	14 636	107	−4	0.153 678	6 348	46	−1
27	0.918 630	6 572	277	+4	0.339 705	14 739	103	−4	0.147 330	6 393	45	+1
28	+0.925 202	+ 6 291	−281	−3	−0.324 966	+14 838	+ 99	−2	−0.140 937	+6 435	+42	−1
März 1	0.931 493	6 010	281	+1	0.310 128	14 932	94	−3	0.134 502	6 476	41	+2
2	0.937 503	5 726	284	−4	0.295 196	15 022	90	−2	0.128 026	6 516	40	+4
3	0.943 229	5 441	285	−4	0.280 174	15 108	86	+1	0.121 510	6 552	36	−4
4	0.948 670	5 154	287	−5	0.265 066	15 189	81	+1	0.114 958	6 587	35	−3
5	0.953 824	4 866	288	−2	0.249 877	15 266	77	+3	0.108 371	6 620	33	0
6	+0.958 690	+ 4 576	−290	−2	−0.234 611	+15 339	+ 73	+5	−0.101 751	+6 652	+32	+5
7	0.963 266	4 286	290	+3	0.219 272	15 406	67	−1	0.095 099	6 681	29	+3
8	0.967 552	3 992	294	−4	0.203 866	15 470	64	+2	0.088 418	6 709	28	+4
9	0.971 544	3 699	293	+4	0.188 396	15 527	57	−4	0.081 709	6 734	25	−2
10	0.975 243	3 404	295	+3	0.172 869	15 582	55	+4	0.074 975	6 757	23	−4
11	0.978 647	3 107	297	0	0.157 287	15 630	48	−1	0.068 218	6 778	21	−4
12	+0.981 754	+ 2 810	−297	+3	−0.141 657	+15 674	+ 44	+1	−0.061 440	+6 797	+19	−1
13	0.984 564	2 512	298	+3	0.125 983	15 713	39	0	0.054 643	6 814	17	+1
14	0.987 076	2 213	299	+2	0.110 270	15 745	32	−4	0.047 829	6 829	15	+4
15	0.989 289	1 913	300	0	0.094 525	15 774	29	+4	0.041 000	6 841	12	+1
16	0.991 202	1 614	299	+3	0.078 751	15 797	23	+5	0.034 159	6 852	11	+3
17	0.992 816	1 315	299	+3	0.062 954	15 815	18	+5	0.027 307	6 859	7	−4
18	+0.994 131	+ 1 015	−300	−3	−0.047 139	+15 828	+ 13	+3	−0.020 448	+6 865	+ 6	−3
19	0.995 146	716	299	−4	0.031 311	15 836	8	0	0.013 583	6 868	3	−3
20	0.995 862	417	299	−4	−0.015 475	15 838	+ 2	−3	−0.006 715	6 870	+ 2	+2
21	0.996 279	+ 120	297	0	+0.000 363	15 837	− 1	+4	+0.000 155	6 869	− 1	+1
22	0.996 399	− 179	299	−5	0.016 200	+15 831	6	+3	0.007 024	+6 867	2	+3
23	+0.996 220		−296	+4	+0.032 031		− 11	−1	+0.013 891		− 5	−3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1945·0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
März 23	+0.996 220	− 475	−296	+4	+0.032 031	+15 820	− 11	−1	+0.013 891	+6 862	− 5	−3
24	0.995 745	771	296	+4	0.047 851	15 804	16	−2	0.020 753	6 855	7	−5
25	0.994 974	1 067	296	+2	0.063 655	15 785	19	+3	0.027 608	6 846	9	−4
26	0.993 907	1 361	294	+4	0.079 440	15 761	24	+1	0.034 454	6 836	10	−2
27	0.992 546	1 656	295	−2	0.095 201	15 732	29	−4	0.041 290	6 823	13	−4
28	0.990 890	1 949	293	+3	0.110 933	15 699	33	−5	0.048 113	6 809	14	−3
29	+0.988 941	− 2 241	−292	+3	+0.126 632	+15 661	− 38	−5	+0.054 922	+6 792	−17	−4
30	0.986 700	2 533	292	−1	0.142 293	15 620	41	0	0.061 714	6 774	18	0
31	0.984 167	2 824	291	−1	0.157 913	15 574	46	0	0.068 488	6 754	20	+1
April 1	0.981 343	3 114	290	−1	0.173 487	15 523	51	−3	0.075 242	6 732	22	+2
2	0.978 229	3 402	288	+3	0.189 010	15 469	54	+2	0.081 974	6 709	23	+3
3	0.974 827	3 691	289	−4	0.204 479	15 409	60	−1	0.088 683	6 682	27	−3
4	+0.971 136	− 3 977	−286	+1	+0.219 888	+15 346	− 63	+4	+0.095 365	+6 655	−27	+1
5	0.967 159	4 264	287	−5	0.235 234	15 278	68	+3	0.102 020	6 625	30	−1
6	0.962 895	4 548	284	+1	0.250 512	15 206	72	+2	0.108 645	6 594	31	+3
7	0.958 347	4 832	284	−1	0.265 718	15 128	78	−3	0.115 239	6 561	33	+3
8	0.953 515	5 113	281	+4	0.280 846	15 047	81	+2	0.121 800	6 525	36	−2
9	0.948 402	5 395	282	−4	0.295 893	14 960	87	0	0.128 325	6 488	37	+1
10	+0.943 007	− 5 674	−279	−2	+0.310 853	+14 870	− 90	+4	+0.134 813	+6 449	−39	0
11	0.937 333	5 951	277	+1	0.325 723	14 773	97	−2	0.141 262	6 407	42	−3
12	0.931 382	6 226	275	+1	0.340 496	14 673	100	+4	0.147 669	6 364	43	−1
13	0.925 156	6 499	273	−1	0.355 169	14 568	105	+4	0.154 033	6 318	46	−2
14	0.918 657	6 770	271	−5	0.369 737	14 459	109	+4	0.160 351	6 271	47	+2
15	0.911 887	7 038	268	−4	0.384 196	14 344	115	−1	0.166 622	6 222	49	+2
16	+0.904 849	− 7 304	−266	−4	+0.398 540	+14 226	−118	+3	+0.172 844	+6 171	−51	−1
17	0.897 545	7 565	261	+4	0.412 766	14 104	122	+4	0.179 015	6 117	54	−5
18	0.889 980	7 826	261	−4	0.426 870	13 978	126	+3	0.185 132	6 063	54	0
19	0.882 154	8 082	256	+2	0.440 848	13 848	130	−1	0.191 195	6 006	57	−2
20	0.874 072	8 336	254	0	0.454 696	13 713	135	−4	0.197 201	5 949	57	+3
21	0.865 736	8 588	252	−3	0.468 409	13 577	136	+4	0.203 150	5 888	61	−5
22	+0.857 148	− 8 835	−247	+3	+0.481 986	+13 435	−142	−2	+0.209 038	+5 827	−61	0
23	0.848 313	9 081	246	−4	0.495 421	13 291	144	+3	0.214 865	5 765	62	+3
24	0.839 232	9 324	243	−5	0.508 712	13 143	148	+4	0.220 630	5 700	65	−1
25	0.829 908	9 564	240	−3	0.521 855	12 992	151	+4	0.226 330	5 635	65	+2
26	0.820 344	9 800	236	+5	0.534 847	12 837	155	+2	0.231 965	5 567	68	−3
27	0.810 544	10 033	233	+4	0.547 684	12 679	158	0	0.237 532	5 498	69	−1
28	+0.800 511	−10 265	−232	−5	+0.560 363	+12 517	−162	−2	+0.243 030	+5 429	−69	+4
29	0.790 246	10 493	228	−5	0.572 880	12 353	164	0	0.248 459	5 357	72	−3
30	0.779 753	10 718	225	−3	0.585 233	12 184	169	−5	0.253 816	5 283	74	−5
Mai 1	0.769 035	10 941	223	−4	0.597 417	12 013	171	+1	0.259 099	5 210	73	+3
2	0.758 094	−11 159	218	+4	0.609 430	+11 839	174	+1	0.264 309	+5 133	77	−4
3	+0.746 935		−216	+2	+0.621 269		−179	−4	+0.269 442		−76	+2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit		Mittleres Äquinoktium 1945.0											
		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945													
Mai	3	+0.746 935	−11 375	−216	+2	+0.621 269	+11 660	−179	−4	+0.269 442	+5 057	− 76	+2
	4	0.735 560	11 588	213	0	0.632 929	11 479	181	+2	0.274 499	4 978	79	−3
	5	0.723 972	11 798	210	−3	0.644 408	11 295	184	+5	0.279 477	4 898	80	−3
	6	0.712 174	12 005	207	−4	0.655 703	11 107	188	+1	0.284 375	4 816	82	−4
	7	0.700 169	12 208	203	−3	0.666 810	10 915	192	−3	0.289 191	4 734	82	+1
	8	0.687 961	12 408	200	−2	0.677 725	10 720	195	−3	0.293 925	4 649	85	−2
	9	+0.675 553	−12 604	−196	+1	+0.688 445	+10 522	−198	0	+0.298 574	+4 563	− 86	0
	10	0.662 949	12 796	192	+3	0.698 967	10 321	201	0	0.303 137	4 477	86	+4
	11	0.650 153	12 984	188	+4	0.709 288	10 115	206	−5	0.307 614	4 387	90	−2
	12	0.637 169	13 167	183	+4	0.719 403	9 908	207	+3	0.312 001	4 298	89	+4
	13	0.624 002	13 348	181	−5	0.729 311	9 698	210	+3	0.316 299	4 206	92	0
	14	0.610 654	13 523	175	−1	0.739 009	9 484	214	−2	0.320 505	4 114	92	+4
	15	+0.597 131	−13 693	−170	+2	+0.748 493	+ 9 268	−216	−3	+0.324 619	+4 021	− 93	+3
	16	0.583 438	13 860	167	−4	0.757 761	9 049	219	−3	0.328 640	3 925	96	−5
	17	0.569 578	14 022	162	−3	0.766 810	8 830	219	+4	0.332 565	3 830	95	+1
	18	0.555 556	14 180	158	−2	0.775 640	8 606	224	−3	0.336 395	3 733	97	0
	19	0.541 376	14 333	153	+2	0.784 246	8 382	224	+2	0.340 128	3 636	97	+1
	20	0.527 043	14 481	148	+3	0.792 628	8 155	227	+2	0.343 764	3 537	99	−2
	21	+0.512 562	−14 627	−146	−4	+0.800 783	+ 7 927	−228	+3	+0.347 301	+3 438	− 99	−1
	22	0.497 935	14 767	140	−1	0.808 710	7 696	231	0	0.350 739	3 338	100	−1
	23	0.483 168	14 904	137	+3	0.816 406	7 464	232	+1	0.354 077	3 237	101	−3
	24	0.468 264	15 035	131	+2	0.823 870	7 230	234	0	0.357 314	3 135	102	−3
	25	0.453 229	15 164	129	−4	0.831 100	6 994	236	−1	0.360 449	3 033	102	0
	26	0.438 065	15 287	123	+2	0.838 094	6 757	237	0	0.363 482	2 930	103	0
	27	+0.422 778	−15 407	−120	−1	+0.844 851	+ 6 518	−239	−2	+0.366 412	+2 826	−104	−1
	28	0.407 371	15 522	115	+2	0.851 369	6 277	241	−3	0.369 238	2 722	104	+1
	29	0.391 849	15 634	112	−2	0.857 646	6 035	242	+1	0.371 960	2 616	106	−2
	30	0.376 215	15 740	106	+3	0.863 681	5 791	244	−1	0.374 576	2 511	105	+4
	31	0.360 475	15 844	104	−5	0.869 472	5 546	245	−1	0.377 087	2 405	106	+2
Juni	1	0.344 631	15 943	99	−1	0.875 018	5 298	248	−4	0.379 492	2 297	108	−3
	2	+0.328 688	−16 037	− 94	+3	+0.880 316	+ 5 050	−248	+3	+0.381 789	+2 190	−107	+1
	3	0.312 651	16 127	90	+2	0.885 366	4 800	250	+3	0.383 979	2 081	109	−1
	4	0.296 524	16 213	86	0	0.890 166	4 547	253	−3	0.386 060	1 972	109	+1
	5	0.280 311	16 294	81	−1	0.894 713	4 294	253	+1	0.388 032	1 863	109	+2
	6	0.264 017	16 371	77	−3	0.899 007	4 039	255	0	0.389 895	1 752	111	−4
	7	0.247 646	16 442	71	+1	0.903 046	3 782	257	0	0.391 647	1 640	112	−5
	8	+0.231 204	−16 509	− 67	−1	+0.906 828	+ 3 525	−257	+4	+0.393 287	+1 529	−111	+4
	9	0.214 695	16 571	62	−1	0.910 353	3 266	259	0	0.394 816	1 417	112	+5
	10	0.198 124	16 627	56	+4	0.913 619	3 005	261	−5	0.396 233	1 305	112	+4
	11	0.181 497	16 678	51	+5	0.916 624	2 746	259	+3	0.397 538	1 191	114	−2
	12	0.164 819	−16 724	46	+2	0.919 370	+ 2 483	263	−5	0.398 729	+1 078	113	0
	13	+0.148 095		− 42	−2	+0.921 853		−261	+4	+0.399 807		−114	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	X	Diff.	2. Diff.	ΔX*)	Y	Diff.	2. Diff.	ΔY*)	Z	Diff.	2. Diff.	ΔZ*)
	Mittleres Äquinoktium 1945.0											
1945												
Juni 13	+0.148 095	−16 766	− 42	−2	+0.921 853	+2 222	−261	+4	+0.399 807	+ 964	−114	0
14	0.131 329	16 801	35	+4	0.924 075	1 961	261	+4	0.400 771	851	113	+4
15	0.114 528	16 832	31	0	0.926 036	1 697	264	−5	0.401 622	737	114	+2
16	0.097 696	16 859	27	−5	0.927 733	1 436	261	+4	0.402 359	623	114	0
17	0.080 837	16 880	21	0	0.929 169	1 173	263	0	0.402 982	509	114	−1
18	0.063 957	16 896	16	+1	0.930 342	911	262	+3	0.403 491	395	114	0
19	+0.047 061	−16 909	− 13	−4	+0.931 253	+ 649	−262	+3	+0.403 886	+ 281	−114	+1
20	0.030 152	16 915	6	+3	0.931 902	386	263	−2	0.404 167	168	113	+3
21	+0.013 237	16 918	− 3	−1	0.932 288	+ 125	261	+4	0.404 335	+ 53	115	−2
22	−0.003 681	16 916	+ 2	−1	0.932 413	− 137	262	−2	0.404 388	− 60	113	+4
23	0.020 597	16 909	7	−1	0.932 276	399	262	−4	0.404 328	173	113	+3
24	0.037 506	16 899	10	−4	0.931 877	660	261	−2	0.404 155	287	114	−2
25	−0.054 405	−16 883	+ 16	+2	+0.931 217	− 921	−261	−1	+0.403 868	− 400	−113	−1
26	0.071 288	16 863	20	+2	0.930 296	1 181	260	+1	0.403 468	513	113	−2
27	0.088 151	16 839	24	+2	0.929 115	1 442	261	−3	0.402 955	626	113	−2
28	0.104 990	16 810	29	+4	0.927 673	1 702	260	−1	0.402 329	739	113	−2
29	0.121 800	16 777	33	0	0.925 971	1 962	260	+1	0.401 590	851	112	+1
30	0.138 577	16 740	37	−2	0.924 009	2 221	259	+4	0.400 739	964	113	−1
Juli 1	−0.155 317	−16 698	+ 42	+2	+0.921 788	−2 480	−259	+2	+0.399 775	−1 076	−112	+3
2	0.172 015	16 651	47	+5	0.919 308	2 739	259	−2	0.398 699	1 188	112	+3
3	0.188 666	16 599	52	+4	0.916 569	2 998	259	−5	0.397 511	1 300	112	+2
4	0.205 265	16 543	56	−1	0.913 571	3 256	258	−3	0.396 211	1 411	111	+3
5	0.221 808	16 483	60	−4	0.910 315	3 513	257	−2	0.394 800	1 523	112	−4
6	0.238 291	16 416	67	+4	0.906 802	3 770	257	−5	0.393 277	1 635	112	−5
7	−0.254 707	−16 345	+ 71	+3	+0.903 032	−4 026	−256	−4	+0.391 642	−1 745	−110	0
8	0.271 052	16 269	76	+3	0.899 006	4 281	255	−2	0.389 897	1 856	111	−2
9	0.287 321	16 187	82	+4	0.894 725	4 534	253	+2	0.388 041	1 966	110	+1
10	0.303 508	16 102	85	−2	0.890 191	4 786	252	+1	0.386 075	2 075	109	+4
11	0.319 610	16 010	92	+2	0.885 405	5 037	251	0	0.384 000	2 183	108	+4
12	0.335 620	15 915	95	−3	0.880 368	5 285	248	+3	0.381 817	2 292	109	−4
13	−0.351 535	−15 815	+100	−1	+0.875 083	−5 533	−248	−2	+0.379 525	−2 399	−107	−2
14	0.367 350	15 709	106	+5	0.869 550	5 778	245	+1	0.377 126	2 506	107	−3
15	0.383 059	15 600	109	+1	0.863 772	6 021	243	+2	0.374 620	2 611	105	0
16	0.398 659	15 486	114	+3	0.857 751	6 263	242	−3	0.372 009	2 716	105	−4
17	0.414 145	15 368	118	+1	0.851 488	6 502	239	0	0.369 293	2 821	105	−5
18	0.429 513	15 246	122	+2	0.844 986	6 740	238	−4	0.366 472	2 923	102	+3
19	−0.444 759	−15 119	+127	+4	+0.838 246	−6 975	−235	−2	+0.363 549	−3 026	−103	0
20	0.459 878	14 989	130	+1	0.831 271	7 209	234	−3	0.360 523	3 126	100	+3
21	0.474 867	14 854	135	+5	0.824 062	7 439	230	+4	0.357 397	3 228	102	−4
22	0.489 721	14 715	139	+4	0.816 623	7 669	230	−2	0.354 169	3 326	98	+4
23	0.504 436	−14 574	141	−3	0.808 954	−7 895	226	+2	0.350 843	−3 425	99	−2
24	−0.519 010		+147	+4	+0.801 059		−225	−2	+0.347 418		− 98	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit		Mittleres Äquinoktium 1945.0											
		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945													
Juli	24	−0.519 010	−14 427	+147	+4	+0.801 059	−8 120	−225	−2	+0.347 418	−3 523	−98	−2
	25	0.533 437	14 277	150	+2	0.792 939	8 343	223	−4	0.343 895	3 618	95	+4
	26	0.547 714	14 124	153	−4	0.784 596	8 563	220	−1	0.340 277	3 715	97	−4
	27	0.561 838	13 967	157	−5	0.776 033	8 782	219	−5	0.336 562	3 809	94	+2
	28	0.575 805	13 806	161	−3	0.767 251	8 999	217	−3	0.332 753	3 903	94	+1
	29	0.589 611	13 641	165	+1	0.758 252	9 212	213	+3	0.328 850	3 995	92	+3
	30	−0.603 252	−13 471	+170	+5	+0.749 040	−9 425	−213	−4	+0.324 855	−4 088	−93	−4
	31	0.616 723	13 299	172	−3	0.739 615	9 635	210	−3	0.320 767	4 178	90	+2
Aug.	1	0.630 022	13 122	177	−1	0.729 980	9 843	208	−4	0.316 589	4 268	90	−2
	2	0.643 144	12 941	181	−1	0.720 137	10 048	205	−1	0.312 321	4 358	90	−5
	3	0.656 085	12 756	185	+1	0.710 089	10 251	203	−1	0.307 963	4 445	87	+3
	4	0.668 841	12 566	190	+4	0.699 838	10 450	199	+2	0.303 518	4 531	86	+3
	5	−0.681 407	−12 373	+193	0	+0.689 388	−10 648	−198	−2	+0.298 987	−4 617	−86	−3
	6	0.693 780	12 176	197	−1	0.678 740	10 841	193	+3	0.294 370	4 702	85	−4
	7	0.705 956	11 975	201	+1	0.667 899	11 032	191	−1	0.289 668	4 784	82	+4
	8	0.717 931	11 769	206	+4	0.656 867	11 220	188	−5	0.284 884	4 865	81	+3
	9	0.729 700	11 561	208	−2	0.645 647	11 404	184	−1	0.280 019	4 945	80	−2
	10	0.741 261	11 349	212	−3	0.634 243	11 584	180	0	0.275 074	5 024	79	−5
	11	−0.752 610	−11 134	+215	−3	+0.622 659	−11 762	−178	−5	+0.270 050	−5 101	−77	−3
	12	0.763 744	10 914	220	+4	0.610 897	11 935	173	0	0.264 949	5 176	75	−1
	13	0.774 658	10 693	221	−4	0.598 962	12 105	170	−3	0.259 773	5 251	75	−4
	14	0.785 351	10 468	225	−3	0.586 857	12 272	167	−5	0.254 522	5 322	71	+3
	15	0.795 819	10 240	228	−3	0.574 585	12 434	162	−1	0.249 200	5 393	71	−2
	16	0.806 059	10 010	230	−4	0.562 151	12 594	160	−5	0.243 807	5 463	70	−2
	17	−0.816 069	−9 776	+234	+1	+0.549 557	−12 749	−155	−1	+0.238 344	−5 530	−67	+4
	18	0.825 845	9 540	236	+2	0.536 808	12 901	152	0	0.232 814	5 595	65	+5
	19	0.835 385	9 301	239	+3	0.523 907	13 049	148	+2	0.227 219	5 660	65	−2
	20	0.844 686	9 060	241	0	0.510 858	13 193	144	+2	0.221 559	5 723	63	−2
	21	0.853 746	8 817	243	−4	0.497 665	13 335	142	−4	0.215 836	5 784	61	+2
	22	0.862 563	8 572	245	−3	0.484 330	13 471	136	+3	0.210 052	5 843	59	+4
	23	−0.871 135	−8 323	+249	+4	+0.470 859	−13 606	−135	−4	+0.204 209	−5 901	−58	+2
	24	0.879 458	8 073	250	+1	0.457 253	13 736	130	0	0.198 308	5 958	57	+1
	25	0.887 531	7 820	253	+1	0.443 517	13 863	127	−2	0.192 350	6 012	54	+4
	26	0.895 351	7 565	255	−2	0.429 654	13 987	124	−3	0.186 338	6 066	54	−1
	27	0.902 916	7 308	257	−5	0.415 667	14 106	119	+3	0.180 272	6 118	52	+1
	28	0.910 224	7 048	260	−4	0.401 561	14 223	117	−3	0.174 154	6 168	50	+4
	29	−0.917 272	−6 786	+262	−3	+0.387 338	−14 335	−112	−1	+0.167 986	−6 216	−48	+4
	30	0.924 058	6 520	266	+1	0.373 003	14 444	109	−4	0.161 770	6 264	48	−2
	31	0.930 578	6 254	266	−4	0.358 559	14 549	105	−5	0.155 506	6 309	45	0
Sept.	1	0.936 832	5 983	271	+5	0.344 010	14 650	101	−5	0.149 197	6 353	44	0
	2	0.942 815	−5 711	272	+4	0.329 360	−14 746	96	−1	0.142 844	−6 394	41	+1
	3	−0.948 526		+274	+3	+0.314 614		−92	0	+0.136 450		−41	−5

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1945.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Sept. 3	−0.948 526	−5 437	+274	+3	+0.314 614	−14 838	−92	0	+0.136 450	−6 435	−41	−5
4	0.953 963	5 160	277	+5	0.299 776	14 926	88	−1	0.130 015	6 473	38	0
5	0.959 123	4 882	278	+2	0.284 850	15 008	82	+4	0.123 542	6 508	35	+3
6	0.964 005	4 602	280	+1	0.269 842	15 087	79	−3	0.117 034	6 543	35	−5
7	0.968 607	4 320	282	0	0.254 755	15 161	74	−4	0.110 491	6 576	33	−5
8	0.972 927	4 038	282	−4	0.239 594	15 231	70	−4	0.103 915	6 605	29	+3
9	−0.976 965	−3 753	+285	+3	+0.224 363	−15 295	−64	+1	+0.097 310	−6 634	−29	−1
10	0.980 718	3 467	286	+5	0.209 068	15 355	60	+2	0.090 676	6 659	25	+4
11	0.984 185	3 180	287	+3	0.193 713	15 410	55	+3	0.084 017	6 684	25	−2
12	0.987 365	2 893	287	−1	0.178 303	15 461	51	+2	0.077 333	6 706	22	+1
13	0.990 258	2 604	289	+2	0.162 842	15 507	46	+1	0.070 627	6 726	20	+1
14	0.992 862	2 315	289	−2	0.147 335	15 548	41	0	0.063 901	6 744	18	+1
15	−0.995 177	−2 025	+290	−2	+0.131 787	−15 586	−38	−5	+0.057 157	−6 760	−16	0
16	0.997 202	1 735	290	−4	0.116 201	15 618	32	−1	0.050 397	6 774	14	−1
17	0.998 937	1 445	290	−3	0.100 583	15 646	28	0	0.043 623	6 786	12	−1
18	1.000 382	1 153	292	+5	0.084 937	15 669	23	0	0.036 837	6 797	11	−3
19	1.001 535	862	291	+2	0.069 268	15 689	20	−4	0.030 040	6 804	7	+2
20	1.002 397	570	292	+2	0.053 579	15 703	14	+1	0.023 236	6 811	7	−3
21	−1.002 967	−279	+291	−3	+0.037 876	−15 715	−12	−5	+0.016 425	−6 816	−5	−1
22	1.003 246	+13	292	−3	0.022 161	15 721	6	+2	0.009 609	6 818	2	+4
23	1.003 233	305	292	−3	+0.006 440	15 723	−2	+5	+0.002 791	6 819	−1	+4
24	1.002 928	597	292	−2	−0.009 283	15 721	+2	+2	−0.004 028	6 818	+1	+5
25	1.002 331	891	294	+4	0.025 004	15 715	6	−2	0.010 846	6 815	3	+5
26	1.001 440	1 184	293	0	0.040 719	15 705	10	−4	0.017 661	6 810	5	+3
27	−1.000 256	+1 477	+293	−1	−0.056 424	−15 690	+15	−3	−0.024 471	−6 804	+6	−2
28	0.998 779	1 772	295	+4	0.072 114	15 670	20	0	0.031 275	6 796	8	−2
29	0.997 007	2 065	293	−3	0.087 784	15 646	24	−3	0.038 071	6 785	11	+4
30	0.994 942	2 359	294	−1	0.103 430	15 617	29	−1	0.044 856	6 772	13	+5
Okt. 1	0.992 583	2 653	294	−1	0.119 047	15 583	34	+2	0.051 628	6 758	14	+2
2	0.989 930	2 946	293	−1	0.134 630	15 543	40	+5	0.058 386	6 740	18	+5
3	−0.986 984	+3 240	+294	+5	−0.150 173	−15 500	+43	−3	−0.065 126	−6 722	+18	−3
4	0.983 744	3 532	292	−1	0.165 673	15 452	48	−3	0.071 848	6 701	21	−4
5	0.980 212	3 824	292	−1	0.181 125	15 398	54	+3	0.078 549	6 678	23	−4
6	0.976 388	4 114	290	−4	0.196 523	15 339	59	+4	0.085 227	6 653	25	−5
7	0.972 274	4 404	290	0	0.211 862	15 276	63	+3	0.091 880	6 626	27	−1
8	0.967 870	4 692	288	−1	0.227 138	15 207	69	+5	0.098 506	6 595	31	+5
9	−0.963 178	+4 980	+288	+3	−0.242 345	−15 135	+72	−1	−0.105 101	−6 565	+30	−4
10	0.958 198	5 265	285	−3	0.257 480	15 057	78	+3	0.111 666	6 531	34	+4
11	0.952 933	5 549	284	−1	0.272 537	14 974	83	+2	0.118 197	6 495	36	+5
12	0.947 384	5 832	283	+1	0.287 511	14 888	86	−3	0.124 692	6 457	38	+4
13	0.941 552	+6 112	280	−3	0.302 399	−14 796	92	+3	0.131 149	−6 418	39	+1
14	−0.935 440		+278	−3	−0.317 195		+96	+3	−0.137 567		+42	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7 Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1945.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Okt. 14	−0.935 440	+ 6 390	+278	−3	−0.317 195	−14 700	+ 96	+3	−0.137 567	−6 376	+ 42	+4
15	0.929 050	6 668	278	+5	0.331 895	14 600	100	+1	0.143 943	6 332	44	+4
16	0.922 382	6 942	274	−1	0.346 495	14 494	106	+5	0.150 275	6 287	45	0
17	0.915 440	7 214	272	−1	0.360 989	14 386	108	−3	0.156 562	6 239	48	+1
18	0.908 226	7 485	271	+3	0.375 375	14 274	112	−4	0.162 801	6 191	48	−4
19	0.900 741	7 752	267	−2	0.389 649	14 156	118	+3	0.168 992	6 139	52	+2
20	−0.892 989	+ 8 019	+267	+3	−0.403 805	−14 036	+120	−2	−0.175 131	−6 087	+ 52	−4
21	0.884 970	8 282	263	−1	0.417 841	13 911	125	+3	0.181 218	6 033	54	−5
22	0.876 688	8 544	262	+3	0.431 752	13 782	129	+3	0.187 251	5 977	56	−2
23	0.868 144	8 805	261	+5	0.445 534	13 650	132	−1	0.193 228	5 919	58	−2
24	0.859 339	9 062	257	−3	0.459 184	13 513	137	0	0.199 147	5 860	59	−4
25	0.850 277	9 317	255	−3	0.472 697	13 373	140	−2	0.205 007	5 800	60	−4
26	−0.840 960	+ 9 572	+255	+4	−0.486 070	−13 228	+145	+1	−0.210 807	−5 736	+ 64	+5
27	0.831 388	9 823	251	−1	0.499 298	13 078	150	+4	0.216 543	5 671	65	+5
28	0.821 565	10 071	248	−3	0.512 376	12 926	152	−2	0.222 214	5 605	66	−1
29	0.811 494	10 318	247	+4	0.525 302	12 767	159	+5	0.227 819	5 537	68	−1
30	0.801 176	10 562	244	+4	0.538 069	12 605	162	+1	0.233 356	5 467	70	+1
31	0.790 614	10 802	240	−1	0.550 674	12 440	165	−4	0.238 823	5 394	73	+4
Nov. 1	−0.779 812	+11 040	+238	+2	−0.563 114	−12 268	+172	+4	−0.244 217	−5 321	+ 73	−2
2	0.768 772	11 274	234	0	0.575 382	12 095	173	−4	0.249 538	5 246	75	−2
3	0.757 498	11 506	232	+2	0.587 477	11 915	180	+3	0.254 784	5 168	78	+4
4	0.745 992	11 733	227	−4	0.599 392	11 733	182	−2	0.259 952	5 089	79	+4
5	0.734 259	11 957	224	−4	0.611 125	11 547	186	−2	0.265 041	5 008	81	+3
6	0.722 302	12 177	220	−4	0.622 672	11 356	191	+4	0.270 049	4 925	83	+2
7	−0.710 125	+12 394	+217	−1	−0.634 028	−11 162	+194	+4	−0.274 974	−4 842	+ 83	−4
8	0.697 731	12 606	212	−1	0.645 190	10 964	198	+4	0.279 816	4 756	86	0
9	0.685 125	12 816	210	+4	0.656 154	10 763	201	+1	0.284 572	4 669	87	+2
10	0.672 309	13 020	204	−4	0.666 917	10 558	205	+2	0.289 241	4 579	90	+5
11	0.659 289	13 220	200	−4	0.677 475	10 351	207	−3	0.293 820	4 490	89	−2
12	0.646 069	13 416	196	−1	0.687 826	10 139	212	+3	0.298 310	4 398	92	+3
13	−0.632 653	+13 609	+193	+4	−0.697 965	− 9 925	+214	0	−0.302 708	−4 305	+ 93	+4
14	0.619 044	13 796	187	−1	0.707 890	9 709	216	−2	0.307 013	4 210	95	+5
15	0.605 248	13 980	184	+1	0.717 599	9 488	221	+5	0.311 223	4 115	95	−2
16	0.591 268	14 158	178	−4	0.727 087	9 266	222	+1	0.315 338	4 019	96	−4
17	0.577 110	14 334	176	+3	0.736 353	9 041	225	0	0.319 357	3 921	98	+2
18	0.562 776	14 505	171	0	0.745 394	8 814	227	−1	0.323 278	3 822	99	+5
19	−0.548 271	+14 671	+166	−4	−0.754 208	− 8 583	+231	+3	−0.327 100	−3 722	+100	+4
20	0.533 600	14 834	163	+1	0.762 791	8 351	232	−1	0.330 822	3 621	101	+4
21	0.518 766	14 994	160	+5	0.771 142	8 116	235	−2	0.334 443	3 519	102	+3
22	0.503 772	15 148	154	−3	0.779 258	7 878	238	−1	0.337 962	3 416	103	+2
23	0.488 624	+15 298	150	−3	0.787 136	− 7 638	240	−3	0.341 378	−3 312	104	+1
24	−0.473 326		+148	+4	−0.794 774		+244	+1	−0.344 690		+106	+3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1945.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Nov. 24	−0.473 326	+15 446	+148	+4	−0.794 774	−7 394	+244	+1	−0.344 690	−3 206	+106	+3
25	0.457 880	15 587	141	−4	0.802 168	7 149	245	−4	0.347 896	3 100	106	0
26	0.442 293	15 725	138	−1	0.809 317	6 901	248	−4	0.350 996	2 992	108	−1
27	0.426 568	15 857	132	−3	0.816 218	6 649	252	+2	0.353 988	2 884	108	−4
28	0.410 711	15 986	129	+4	0.822 867	6 396	253	−2	0.356 872	2 774	110	0
29	0.394 725	16 109	123	+1	0.829 263	6 140	256	0	0.359 646	2 663	111	+2
30	−0.378 616	+16 227	+118	+2	−0.835 403	−5 882	+258	+1	−0.362 309	−2 551	+112	+2
Dez. 1	0.362 389	16 341	114	+5	0.841 285	5 621	261	+2	0.364 860	2 438	113	0
2	0.346 048	16 448	107	−2	0.846 906	5 359	262	−1	0.367 298	2 325	113	−3
3	0.329 600	16 551	103	+3	0.852 265	5 095	264	−1	0.369 623	2 210	115	+1
4	0.313 049	16 649	98	+5	0.857 360	4 828	267	+4	0.371 833	2 095	115	0
5	0.296 400	16 741	92	0	0.862 188	4 560	268	0	0.373 928	1 978	117	+2
6	−0.279 659	+16 827	+86	−4	−0.866 748	−4 291	+269	−3	−0.375 906	−1 862	+116	−2
7	0.262 832	16 908	81	−1	0.871 039	4 020	271	−1	0.377 768	1 744	118	+2
8	0.245 924	16 984	76	+3	0.875 059	3 748	272	+1	0.379 512	1 626	118	+1
9	0.228 940	17 054	70	0	0.878 807	3 474	274	+5	0.381 138	1 507	119	+2
10	0.211 886	17 118	64	−1	0.882 281	3 200	274	+2	0.382 645	1 388	119	0
11	0.194 768	17 178	60	+3	0.885 481	2 924	276	+5	0.384 033	1 269	119	−3
12	−0.177 590	+17 230	+52	−4	−0.888 405	−2 649	+275	−1	−0.385 302	−1 149	+120	+1
13	0.160 360	17 279	49	+2	0.891 054	2 373	276	0	0.386 451	1 029	120	+2
14	0.143 081	17 321	42	−1	0.893 427	2 095	278	+4	0.387 480	908	121	+3
15	0.125 760	17 359	38	+2	0.895 522	1 819	276	−2	0.388 388	788	120	−2
16	0.108 401	17 391	32	0	0.897 341	1 541	278	+3	0.389 176	668	120	−5
17	0.091 010	17 418	27	+1	0.898 882	1 263	278	+3	0.389 844	547	121	−2
18	−0.073 592	+17 441	+23	+3	−0.900 145	− 985	+278	+1	−0.390 391	− 427	+120	−3
19	0.056 151	17 458	17	−1	0.901 130	707	278	0	0.390 818	306	121	+1
20	0.038 693	17 470	12	−3	0.901 837	428	279	+2	0.391 124	185	121	+2
21	0.021 223	17 477	7	−3	0.902 265	− 149	279	0	0.391 309	− 64	121	+2
22	−0.003 746	17 480	+ 3	+1	0.902 414	+ 130	279	−3	0.391 373	+ 57	121	0
23	+0.013 734	17 477	− 3	−2	0.902 284	410	280	−1	0.391 316	178	121	+1
24	+0.031 211	+17 468	− 9	−5	−0.901 874	+ 690	+280	0	−0.391 138	+ 300	+122	+3
25	0.048 679	17 455	13	+1	0.901 184	970	280	−3	0.390 838	420	120	−3
26	0.066 134	17 436	19	−1	0.900 214	1 250	280	−4	0.390 418	542	122	+4
27	0.083 570	17 411	25	−3	0.898 964	1 529	279	−4	0.389 876	664	122	+4
28	0.100 981	17 381	30	−1	0.897 435	1 810	281	+5	0.389 212	784	120	−2
29	0.118 362	17 346	35	+1	0.895 625	2 090	280	+3	0.388 428	906	122	+4
30	+0.135 708	+17 304	− 42	−3	−0.893 535	+2 368	+278	−2	−0.387 522	+1 027	+121	+2
31	0.153 012	+17 258	46	+1	0.891 167	2 647	279	+2	0.386 495	1 147	120	−2
32	+0.170 270		− 54	−4	−0.888 520		+278	+2	−0.385 348		+121	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Frühlingsäquinoktium	20. März	$23^h\ 38^m$	Herbstäquinoktium	23. Sept.	$9^h\ 50^m$
Sommersolstitium	21. Juni	18 52	Wintersolstitium	22. Dez.	5 4

Erdnähe 1. Jan. 23^h
Erdferne 5. Juli 10

Tag		0h Welt-Zeit			
		Aberration	Parallaxe	Mittlere Länge $L_{\odot}$	Mittlere Anomalie $M_{\odot}$
1945		″	″	°	°
Jan.	−1	20.82	8.95	278.3179	356.32
	+9	20.82	8.95	288.1743	6.18
	19	20.80	8.94	298.0308	16.04
	29	20.78	8.93	307.8873	25.89
Febr.	8	20.75	8.92	317.7438	35.75
	18	20.71	8.90	327.6002	45.60
	28	20.66	8.88	337.4567	55.46
März	10	20.61	8.86	347.3132	65.32
	20	20.55	8.84	357.1697	75.17
	30	20.49	8.81	7.0261	85.03
April	9	20.43	8.78	16.8826	94.88
	19	20.38	8.76	26.7391	104.74
	29	20.32	8.74	36.5956	114.60
Mai	9	20.27	8.72	46.4520	124.45
	19	20.23	8.70	56.3085	134.31
	29	20.19	8.68	66.1650	144.16
Juni	8	20.17	8.67	76.0214	154.02
	18	20.15	8.66	85.8779	163.88
	28	20.14	8.66	95.7344	173.73
Juli	8	20.13	8.66	105.5909	183.59
	18	20.14	8.66	115.4473	193.44
	28	20.16	8.67	125.3038	203.30
Aug.	7	20.19	8.68	135.1603	213.16
	17	20.22	8.69	145.0168	223.01
	27	20.26	8.71	154.8732	232.87
Sept.	6	20.31	8.73	164.7297	242.72
	16	20.36	8.75	174.5862	252.58
	26	20.42	8.78	184.4427	262.44
Okt.	6	20.48	8.80	194.2991	272.29
	16	20.54	8.83	204.1556	282.15
	26	20.59	8.85	214.0121	292.00
Nov.	5	20.65	8.88	223.8685	301.86
	15	20.70	8.90	233.7250	311.72
	25	20.74	8.92	243.5815	321.57
Dez.	5	20.77	8.93	253.4380	331.43
	15	20.80	8.94	263.2944	341.28
	25	20.81	8.95	273.1509	351.14
	35	20.82	8.95	283.0074	1.00

Tag		Scheinbare Rektaszension	Δ	Scheinbare Deklination	Δ	Parallaxe	Δ	Halbmesser	Δ	Länge	Breite	Alter
		0h Welt-Zeit										
1945		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Jan.	0	7 52 50	54 25	+21 38.2	1 48.2	56 34.4	37.5	15 26.4	10.2	116.067	+0.708	15.4
	1	8 47 15	51 40	+19 50.0	2 43.6	55 56.9	34.8	15 16.2	9.5	128.865	+1.852	16.4
	2	9 38 55	48 56	+17 6.4	3 26.1	55 22.1	29.8	15 6.7	8.1	141.382	+2.882	17.4
	3	10 27 51	46 34	+13 40.3	3 56.3	54 52.3	22.4	14 58.6	6.2	153.650	+3.758	18.4
	4	11 14 25	44 53	+ 9 44.0	4 15.9	54 29.9	13.5	14 52.4	3.6	165.721	+4.452	19.4
	5	11 59 18	43 56	+ 5 28.1	4 26.5	54 16.4	3.3	14 48.8	0.9	177.657	+4.945	20.4
	6	12 43 14	43 51	+ 1 1.6	4 28.9	54 13.1	7.3	14 47.9	2.0	189.530	+5.223	21.4
	7	13 27 5	44 37	− 3 27.3	4 23.3	54 20.4	17.8	14 49.9	4.8	201.419	+5.280	22.4
	8	14 11 42	46 15	− 7 50.6	4 9.0	54 38.2	27.5	14 54.7	7.5	213.402	+5.108	23.4
	9	14 57 57	48 36	−11 59.6	3 44.0	55 5.7	35.7	15 2.2	9.7	225.555	+4.708	24.4
	10	15 46 33	51 34	−15 43.6	3 6.4	55 41.4	41.7	15 11.9	11.4	237.949	+4.083	25.4
	11	16 38 7	54 43	−18 50.0	2 14.5	56 23.1	44.7	15 23.3	12.2	250.637	+3.246	26.4
	12	17 32 50	57 32	−21 4.5	1 8.2	57 7.8	44.2	15 35.5	12.0	263.658	+2.221	27.4
	13	18 30 22	59 26	−22 12.7	0 9.4	57 52.0	40.2	15 47.5	11.0	277.027	+1.049	28.4
	14	19 29 48	60 0	−22 3.3	1 31.6	58 32.2	32.8	15 58.5	8.9	290.729	−0.211	29.4
	15	20 29 48	59 14	−20 31.7	2 49.9	59 5.0	23.2	16 7.4	6.3	304.727	−1.485	0.8
	16	21 29 2	57 34	−17 41.8	3 56.0	59 28.2	12.5	16 13.7	3.4	318.955	−2.687	1.8
	17	22 26 36	55 36	−13 45.8	4 45.0	59 40.7	2.0	16 17.1	0.6	333.333	−3.731	2.8
	18	23 22 12	53 55	− 9 0.8	5 14.2	59 42.7	7.0	16 17.7	1.9	347.773	−4.543	3.8
	19	0 16 7	52 52	− 3 46.6	5 24.1	59 35.7	14.0	16 15.8	3.8	2.193	−5.067	4.8
	20	1 8 59	52 37	+ 1 37.5	5 15.8	59 21.7	19.0	16 12.0	5.2	16.522	−5.273	5.8
	21	2 1 36	53 6	+ 6 53.3	4 50.7	59 2.7	22.4	16 6.8	6.1	30.709	−5.154	6.8
	22	2 54 42	54 10	+11 44.0	4 9.9	58 40.3	24.5	16 0.7	6.7	44.717	−4.730	7.8
	23	3 48 52	55 27	+15 53.9	3 15.4	58 15.8	26.2	15 54.0	7.1	58.530	−4.036	8.8
	24	4 44 19	56 31	+19 9.3	2 9.7	57 49.6	27.4	15 46.9	7.5	72.136	−3.125	9.8
	25	5 40 50	56 54	+21 19.0	0 57.2	57 22.2	28.5	15 39.4	7.8	85.535	−2.054	10.8
	26	6 37 44	56 17	+22 16.2	0 16.7	56 53.7	29.4	15 31.6	8.0	98.725	−0.891	11.8
	27	7 34 1	54 43	+21 59.5	1 25.9	56 24.3	29.5	15 23.6	8.0	111.705	+0.300	12.8
	28	8 28 44	52 27	+20 33.6	2 25.7	55 54.8	28.6	15 15.6	7.8	124.477	+1.455	13.8
	29	9 21 11	49 55	+18 7.9	3 13.5	55 26.2	26.5	15 7.8	7.2	137.043	+2.519	14.8
	30	10 11 6	47 33	+14 54.4	3 48.8	54 59.7	22.6	15 0.6	6.2	149.414	+3.446	15.8
	31	10 58 39	45 36	+11 5.6	4 12.2	54 37.1	17.1	14 54.4	4.7	161.605	+4.200	16.8
Febr.	1	11 44 15	44 19	+ 6 53.4	4 25.3	54 20.0	10.0	14 49.7	2.7	173.646	+4.757	17.8
	2	12 28 34	43 45	+ 2 28.1	4 29.2	54 10.0	1.5	14 47.0	0.4	185.576	+5.102	18.8
	3	13 12 19	44 1	− 2 1.1	4 25.0	54 8.5	8.2	14 46.6	2.3	197.447	+5.226	19.8
	4	13 56 20	45 5	− 6 26.1	4 12.4	54 16.7	18.4	14 48.9	5.0	209.321	+5.127	20.8
	5	14 41 25	46 56	−10 38.5	3 50.7	54 35.1	28.7	14 53.9	7.8	221.270	+4.805	21.8
	6	15 28 21	49 29	−14 29.2	3 18.3	55 3.8	38.3	15 1.7	10.4	233.373	+4.268	22.8
	7	16 17 50	52 30	−17 47.5	2 33.5	55 42.1	46.3	15 12.1	12.6	245.711	+3.526	23.8
	8	17 10 20	55 38	−20 21.0	1 35.0	56 28.4	51.9	15 24.7	14.2	258.359	+2.595	24.8
	9	18 5 58	58 16	−21 56.0	0 23.3	57 20.3	53.6	15 38.9	14.6	271.383	+1.506	25.8
	10	19 4 14		−22 19.3		58 13.9		15 53.5		284.827	+0.301	26.8

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Jan. 0	7 55 52	144	+21 33.9	− 3.5	56.5	1 18.5	2.23	18 10	2.7	9 24	1.8
1	8 52 3	137	+19 37.3	− 6.2	55.9	2 10.6	2.11	19 16	2.8	10 2	1.4
2	9 45 10	129	+16 42.7	− 8.3	55.3	2 59.6	1.98	20 23	2.8	10 32	1.1
3	10 35 17	122	+13 5.0	− 9.8	54.8	3 45.7	1.86	21 28	2.7	10 56	1.0
4	11 22 55	117	+ 8 57.3	−10.8	54.4	4 29.2	1.77	22 33	2.7	11 18	0.9
5	12 8 50	113	+ 4 31.1	−11.3	54.2	5 11.1	1.72	23 37	2.7	11 37	0.8
6	12 53 56	113	− 0 4.2	−11.5	54.2	5 52.1	1.71	— —	—	11 56	0.8
7	13 39 10	114	− 4 40.1	−11.4	54.4	6 33.3	1.73	0 41	2.7	12 15	0.8
8	14 25 29	118	− 9 7.9	−10.9	54.8	7 15.6	1.80	1 46	2.7	12 36	0.9
9	15 13 51	124	−13 17.6	− 9.9	55.3	7 59.9	1.90	2 52	2.8	12 59	1.1
10	16 5 4	132	−16 56.9	− 8.3	55.9	8 47.0	2.03	4 0	2.8	13 27	1.3
11	16 59 41	141	−19 51.0	− 6.1	56.7	9 37.6	2.18	5 9	2.8	14 2	1.6
12	17 57 45	149	−21 43.3	− 3.2	57.5	10 31.5	2.31	6 15	2.7	14 46	2.1
13	18 58 37	155	−22 18.4	+ 0.3	58.2	11 28.3	2.41	7 17	2.4	15 40	2.5
14	20 0 56	156	−21 26.0	+ 4.0	58.8	12 26.5	2.43	8 11	2.1	16 46	2.9
15	21 3 4	154	−19 5.8	+ 7.6	59.3	13 24.6	2.39	8 56	1.7	18 0	3.2
16	22 3 41	149	−15 27.6	+10.5	59.6	14 21.1	2.31	9 33	1.4	19 19	3.3
17	23 2 10	143	−10 49.1	+12.6	59.7	15 15.5	2.22	10 3	1.2	20 39	3.3
18	23 58 35	139	− 5 31.7	+13.7	59.6	16 7.8	2.15	10 30	1.0	21 59	3.3
19	0 53 35	136	+ 0 2.8	+14.0	59.4	16 58.7	2.10	10 53	1.0	23 18	3.3
20	1 48 1	136	+ 5 33.8	+13.5	59.1	17 49.1	2.10	11 17	1.0	— —	—
21	2 42 49	138	+10 42.3	+12.2	58.8	18 39.8	2.13	11 41	1.1	0 36	3.2
22	3 38 40	141	+15 11.1	+10.1	58.3	19 31.6	2.19	12 8	1.2	1 53	3.2
23	4 35 57	145	+18 44.0	+ 7.5	57.9	20 24.7	2.24	12 39	1.4	3 9	3.1
24	5 34 30	147	+21 8.1	+ 4.4	57.4	21 19.2	2.29	13 17	1.7	4 22	2.9
25	6 33 33	147	+22 14.5	+ 1.1	56.9	22 14.2	2.29	14 2	2.0	5 29	2.6
26	7 32 2	144	+22 1.3	− 2.2	56.4	23 8.6	2.24	14 55	2.4	6 28	2.3
27	— — —	—	— —	—	—	— —	—	15 55	2.6	7 18	1.9
28	8 28 47	139	+20 33.5	− 5.1	55.9	0 1.2	2.15	17 0	2.7	7 59	1.5
29	9 23 1	132	+18 1.7	− 7.5	55.4	0 51.4	2.03	18 7	2.8	8 32	1.2
30	10 14 26	125	+14 39.7	− 9.3	55.0	1 38.7	1.92	19 13	2.7	8 58	1.0
31	11 3 16	119	+10 41.4	−10.5	54.6	2 23.5	1.82	20 19	2.7	9 21	0.9
Febr. 1	11 50 2	115	+ 6 19.7	−11.2	54.3	3 6.2	1.75	21 24	2.7	9 41	0.8
2	12 35 30	113	+ 1 45.6	−11.5	54.2	3 47.6	1.71	22 27	2.7	10 0	0.8
3	13 20 29	113	− 2 51.1	−11.5	54.2	4 28.5	1.71	23 31	2.7	10 19	0.8
4	14 5 55	115	− 7 21.8	−11.0	54.3	5 9.9	1.75	— —	—	10 39	0.9
5	14 52 42	119	−11 37.4	−10.2	54.7	5 52.6	1.82	0 36	2.7	11 0	1.0
6	15 41 44	126	−15 27.7	− 8.9	55.2	6 37.6	1.93	1 42	2.8	11 25	1.2
7	16 33 44	134	−18 40.4	− 7.1	55.9	7 25.5	2.07	2 49	2.8	11 56	1.4
8	17 29 11	143	−21 1.1	− 4.6	56.8	8 16.9	2.21	3 56	2.7	12 34	1.8
9	18 28 1	150	−22 14.0	− 1.4	57.7	9 11.6	2.34	4 59	2.5	13 23	2.3
10	19 29 27	156	−22 5.1	+ 2.2	58.6	10 9.0	2.43	5 57	2.2	14 23	2.7

Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite	Alter
0h Welt-Zeit											
1945	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Febr. 10	19 4 14	59 56	−22 19.3	0 57.6	58 13.9	51.0	15 53.5	13.9	284.827	+0.301	26.8
11	20 4 10	60 18	−21 21.7	2 20.6	59 4.9	43.5	16 7.4	11.8	298.706	−0.957	27.8
12	21 4 28	59 28	−19 1.1	3 36.7	59 48.4	31.5	16 19.2	8.6	312.992	−2.190	28.8
13	22 3 56	57 56	−15 24.4	4 37.6	60 19.9	16.4	16 27.8	4.5	327.615	−3.306	0.3
14	23 1 52	56 17	−10 46.8	5 17.9	60 36.3	0.3	16 32.3	0.1	342.460	−4.216	1.3
15	23 58 9	54 56	− 5 28.9	5 35.3	60 36.6	14.6	16 32.4	4.0	357.388	−4.844	2.3
16	0 53 5	54 15	+ 0 6.4	5 30.8	60 22.0	26.5	16 28.4	7.2	12.253	−5.142	3.3
17	1 47 20	54 11	+ 5 37.2	5 6.4	59 55.5	34.7	16 21.2	9.5	26.928	−5.099	4.3
18	2 41 31	54 42	+10 43.6	4 24.9	59 20.8	39.0	16 11.7	10.6	41.321	−4.733	5.3
19	3 36 13	55 27	+15 8.5	3 29.6	58 41.8	40.2	16 1.1	11.0	55.381	−4.088	6.3
20	4 31 40	56 9	+18 38.1	2 24.2	58 1.6	39.0	15 50.1	10.6	69.097	−3.222	7.3
21	5 27 49	56 19	+21 2.3	1 12.7	57 22.6	36.4	15 39.5	9.9	82.487	−2.198	8.3
22	6 24 8	55 45	+22 15.0	0 0.1	56 46.2	33.4	15 29.6	9.1	95.583	−1.080	9.3
23	7 19 53	54 22	+22 14.9	1 9.2	56 12.8	29.9	15 20.5	8.2	108.427	+0.071	10.3
24	8 14 15	52 23	+21 5.7	2 10.3	55 42.9	26.6	15 12.3	7.2	121.059	+1.197	11.3
25	9 6 38	50 7	+18 55.4	3 1.1	55 16.3	23.3	15 5.1	6.3	133.513	+2.247	12.3
26	9 56 45	47 52	+15 54.3	3 40.2	54 53.0	19.7	14 58.8	5.4	145.815	+3.176	13.3
27	10 44 37	45 59	+12 14.1	4 7.6	54 33.3	15.7	14 53.4	4.3	157.987	+3.947	14.3
28	11 30 36	44 37	+ 8 6.5	4 24.2	54 17.6	10.9	14 49.1	3.0	170.048	+4.533	15.3
März 1	12 15 13	43 53	+ 3 42.3	4 30.9	54 6.7	5.3	14 46.1	1.4	182.016	+4.912	16.3
2	12 59 6	43 49	− 0 48.6	4 28.5	54 1.4	1.5	14 44.7	0.4	193.916	+5.076	17.3
3	13 42 55	44 30	− 5 17.1	4 17.3	54 2.9	9.4	14 45.1	2.6	205.779	+5.019	18.3
4	14 27 25	45 52	− 9 34.4	3 57.0	54 12.3	18.1	14 47.7	4.9	217.650	+4.746	19.3
5	15 13 17	47 53	−13 31.4	3 27.3	54 30.4	27.5	14 52.6	7.5	229.584	+4.266	20.3
6	16 1 10	50 26	−16 58.7	2 46.6	54 57.9	36.9	15 0.1	10.0	241.647	+3.591	21.3
7	16 51 36	53 14	−19 45.3	1 54.3	55 34.8	45.8	15 10.1	12.5	253.917	+2.740	22.3
8	17 44 50	55 53	−21 39.6	0 50.0	56 20.6	53.0	15 22.6	14.4	266.474	+1.739	23.3
9	18 40 43	57 59	−22 29.6	0 24.7	57 13.6	57.3	15 37.0	15.7	279.398	+0.622	24.3
10	19 38 42	59 8	−22 4.9	1 45.1	58 10.9	57.7	15 52.7	15.7	292.759	−0.565	25.3
11	20 37 50	59 17	−20 19.8	3 4.6	59 8.6	52.6	16 8.4	14.3	306.600	−1.758	26.3
12	21 37 7	58 37	−17 15.2	4 15.2	60 1.2	42.1	16 22.7	11.5	320.925	−2.880	27.3
13	22 35 44	57 36	−13 0.0	5 9.1	60 43.3	26.3	16 34.2	7.2	335.685	−3.844	28.3
14	23 33 20	56 39	− 7 50.9	5 41.1	61 9.6	7.4	16 41.4	2.0	350.771	−4.561	29.3
15	0 29 59	56 6	− 2 9.8	5 48.4	61 17.0	12.0	16 43.4	3.3	6.024	−4.962	0.8
16	1 26 5	56 5	+ 3 38.6	5 31.4	61 5.0	29.2	16 40.1	8.0	21.256	−5.012	1.8
17	2 22 10	56 30	+ 9 10.0	4 52.6	60 35.8	42.1	16 32.1	11.4	36.290	−4.713	2.8
18	3 18 40	57 5	+14 2.6	3 56.0	59 53.7	49.6	16 20.7	13.5	50.985	−4.107	3.8
19	4 15 45	57 31	+17 58.6	2 47.3	59 4.1	52.2	16 7.2	14.3	65.257	−3.258	4.8
20	5 13 16	57 24	+20 45.9	1 31.8	58 11.9	50.9	15 52.9	13.8	79.078	−2.240	5.8
21	6 10 40	56 30	+22 17.7	0 16.0	57 21.0	46.7	15 39.1	12.7	92.467	−1.127	6.8
22	7 7 10	54 51	+22 33.7	0 55.5	56 34.3	40.8	15 26.4	11.2	105.473	+0.013	7.8
23	8 2 1		+21 38.2		55 53.5		15 15.2		118.159	+1.124	8.8

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	19 29 27	156	−22 5.1	+ 2.2	58.6	10 9.0	2.43	5 57	2.2	14 23	2.7
11	20 32 9	157	−20 26.6	+ 6.0	59.4	11 7.6	2.45	6 46	1.9	15 34	3.1
12	21 34 36	155	−17 20.6	+ 9.4	60.1	12 5.9	2.41	7 28	1.6	16 52	3.3
13	22 35 39	150	−12 59.8	+12.1	60.5	13 2.8	2.33	8 2	1.3	18 15	3.4
14	23 34 48	146	− 7 45.3	+13.9	60.6	13 57.9	2.25	8 30	1.1	19 38	3.5
15	0 32 16	142	− 2 2.0	+14.5	60.5	14 51.3	2.20	8 56	1.0	21 0	3.4
16	1 28 40	140	+ 3 45.0	+14.2	60.1	15 43.6	2.17	9 20	1.0	22 22	3.4
17	2 24 46	141	+ 9 12.7	+13.0	59.5	16 35.6	2.17	9 45	1.1	23 41	3.3
18	3 21 15	142	+14 1.3	+11.0	58.9	17 28.0	2.20	10 11	1.2	— —	—
19	4 18 33	144	+17 54.4	+ 8.4	58.2	18 21.2	2.23	10 41	1.4	0 59	3.2
20	5 16 41	146	+20 39.3	+ 5.3	57.5	19 15.3	2.26	11 17	1.6	2 14	3.0
21	6 15 8	146	+22 8.2	+ 2.1	56.9	20 9.6	2.26	11 59	1.9	3 23	2.7
22	7 13 6	143	+22 18.7	− 1.2	56.3	21 3.5	2.22	12 49	2.2	4 24	2.4
23	8 9 39	139	+21 14.2	− 4.1	55.8	21 56.0	2.14	13 47	2.5	5 16	2.0
24	9 4 1	133	+19 3.4	− 6.7	55.3	22 46.3	2.04	14 49	2.7	5 59	1.6
25	9 55 52	126	+15 57.9	− 8.7	54.9	23 34.0	1.94	15 55	2.7	6 33	1.3
26	— — —	—	— —	—	—	— —	—	17 1	2.8	7 1	1.1
27	10 45 15	121	+12 11.0	−10.1	54.6	0 19.4	1.84	18 7	2.7	7 25	0.9
28	11 32 34	116	+ 7 55.3	−11.1	54.3	1 2.6	1.77	19 12	2.7	7 46	0.8
März 1	12 18 25	113	+ 3 22.8	−11.6	54.1	1 44.4	1.72	20 16	2.7	8 5	0.8
2	13 3 31	112	− 1 16.0	−11.6	54.0	2 25.4	1.70	21 20	2.7	8 23	0.8
3	13 48 38	113	− 5 51.2	−11.3	54.1	3 6.5	1.72	22 25	2.7	8 42	0.8
4	14 34 35	117	−10 13.5	−10.5	54.2	3 48.4	1.77	23 30	2.7	9 3	0.9
5	15 22 9	122	−14 13.2	− 9.4	54.6	4 31.9	1.86	— —	—	9 26	1.1
6	16 12 4	128	−17 39.3	− 7.7	55.1	5 17.8	1.97	0 35	2.7	9 54	1.3
7	17 4 53	136	−20 19.9	− 5.5	55.8	6 6.5	2.10	1 41	2.7	10 28	1.6
8	18 0 48	144	−22 1.3	− 2.8	56.6	6 58.3	2.22	2 44	2.5	11 10	2.0
9	18 59 34	150	−22 30.1	+ 0.5	57.5	7 53.0	2.33	3 43	2.3	12 3	2.5
10	20 0 22	154	−21 35.7	+ 4.1	58.5	8 49.7	2.39	4 35	2.0	13 8	2.9
11	21 2 3	154	−19 13.8	+ 7.7	59.5	9 47.3	2.40	5 19	1.7	14 22	3.2
12	22 3 28	152	−15 28.8	+10.9	60.4	10 44.6	2.37	5 56	1.4	15 42	3.4
13	23 3 54	150	−10 35.0	+13.3	61.0	11 40.9	2.32	6 27	1.2	17 6	3.5
14	0 3 10	147	− 4 54.3	+14.8	61.3	12 36.1	2.28	6 54	1.1	18 31	3.5
15	1 1 35	145	+ 1 7.0	+15.1	61.2	13 30.4	2.25	7 20	1.0	19 56	3.5
16	1 59 43	145	+ 7 1.1	+14.2	60.8	14 24.5	2.25	7 45	1.1	21 20	3.5
17	2 58 9	147	+12 22.4	+12.4	60.2	15 18.8	2.28	8 11	1.2	22 42	3.4
18	3 57 13	148	+16 49.3	+ 9.7	59.3	16 13.8	2.30	8 40	1.3	— —	—
19	4 56 51	150	+20 5.7	+ 6.6	58.4	17 9.3	2.32	9 15	1.6	0 1	3.2
20	5 56 34	149	+22 2.2	+ 3.1	57.6	18 5.0	2.31	9 55	1.9	1 14	2.9
21	6 55 30	146	+22 36.5	− 0.2	56.7	18 59.8	2.26	10 44	2.2	2 20	2.5
22	7 52 45	140	+21 52.5	− 3.4	56.0	19 53.0	2.17	11 40	2.4	3 15	2.1
23	8 47 38	134	+19 59.2	− 6.0	55.4	20 43.8	2.06	12 41	2.6	4 1	1.7

Tag	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1945	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
März 23	8 2 1	52 39	+21 38.2	1 58.5	55 53.5	34.4	15 15.2	9.4	118.159	+1.124	8.8
24	8 54 40	50 15	+19 39.7	2 51.1	55 19.1	27.9	15 5.8	7.5	130.592	+2.158	9.8
25	9 44 55	47 58	+16 48.6	3 32.4	54 51.2	21.6	14 58.3	5.9	142.834	+3.073	10.8
26	10 32 53	46 2	+13 16.2	4 2.6	54 29.6	15.9	14 52.4	4.4	154.938	+3.836	11.8
27	11 18 55	44 39	+ 9 13.6	4 22.5	54 13.7	10.5	14 48.0	2.8	166.943	+4.420	12.8
28	12 3 34	43 52	+ 4 51.1	4 32.3	54 3.2	5.4	14 45.2	1.5	178.883	+4.806	13.8
29	12 47 26	43 45	+ 0 18.8	4 32.7	53 57.8	0.1	14 43.7	0.0	190.782	+4.979	14.8
30	13 31 11	44 16	− 4 13.9	4 23.8	53 57.7	5.5	14 43.7	1.5	202.660	+4.936	15.8
31	14 15 27	45 26	− 8 37.7	4 5.5	54 3.2	11.5	14 45.2	3.1	214.541	+4.678	16.8
April 1	15 0 53	47 9	−12 43.2	3 37.3	54 14.7	18.3	14 48.3	5.0	226.453	+4.214	17.8
2	15 48 2	49 20	−16 20.5	2 58.6	54 33.0	25.7	14 53.3	7.0	238.432	+3.561	18.8
3	16 37 22	51 42	−19 19.1	2 9.2	54 58.7	33.5	15 0.3	9.1	250.529	+2.741	19.8
4	17 29 4	54 1	−21 28.3	1 9.1	55 32.2	41.3	15 9.4	11.3	262.804	+1.781	20.8
5	18 23 5	55 55	−22 37.4	0 0.0	56 13.5	48.5	15 20.7	13.2	275.327	+0.715	21.8
6	19 19 0	57 6	−22 37.4	1 15.4	57 2.0	53.7	15 33.9	14.6	288.174	−0.414	22.8
7	20 16 6	57 31	−21 22.0	2 31.9	57 55.7	56.2	15 48.5	15.3	301.418	−1.556	23.8
8	21 13 37	57 17	−18 50.1	3 43.9	58 51.9	54.3	16 3.8	14.8	315.116	−2.647	24.8
9	22 10 54	56 46	−15 6.2	4 44.9	59 46.2	47.1	16 18.6	12.9	329.297	−3.613	25.8
10	23 7 40	56 18	−10 21.3	5 29.3	60 33.3	34.4	16 31.5	9.3	343.940	−4.375	26.8
11	0 3 58	56 13	− 4 52.0	5 52.1	61 7.7	16.9	16 40.8	4.6	358.969	−4.858	27.8
12	1 0 11	56 40	+ 1 0.1	5 50.1	61 24.6	3.3	16 45.4	0.9	14.243	−5.006	28.8
13	1 56 51	57 32	+ 6 50.2	5 22.7	61 21.3	22.9	16 44.5	6.2	29.580	−4.795	0.5
14	2 54 23	58 37	+12 12.9	4 32.1	60 58.4	39.6	16 38.3	10.8	44.783	−4.246	1.5
15	3 53 0	59 27	+16 45.0	3 23.3	60 18.8	51.0	16 27.5	13.9	59.684	−3.416	2.5
16	4 52 27	59 35	+20 8.3	2 3.5	59 27.8	56.8	16 13.6	15.5	74.161	−2.383	3.5
17	5 52 2	58 42	+22 11.8	0 40.9	58 31.0	57.3	15 58.1	15.6	88.157	−1.236	4.5
18	6 50 44	56 47	+22 52.7	0 37.2	57 33.7	53.8	15 42.5	14.6	101.670	−0.055	5.5
19	7 47 31	54 11	+22 15.5	1 45.6	56 39.9	47.3	15 27.9	12.9	114.740	+1.092	6.5
20	8 41 42	51 19	+20 29.9	2 42.0	55 52.6	39.3	15 15.0	10.7	127.433	+2.152	7.5
21	9 33 1	48 37	+17 47.9	3 25.8	55 13.3	30.8	15 4.3	8.4	139.823	+3.083	8.5
22	10 21 38	46 22	+14 22.1	3 58.3	54 42.5	22.2	14 55.9	6.1	151.989	+3.856	9.5
23	11 8 0	44 44	+10 23.8	4 20.1	54 20.3	14.3	14 49.8	3.9	164.000	+4.447	10.5
24	11 52 44	43 49	+ 6 3.7	4 32.6	54 6.0	7.1	14 45.9	1.9	175.918	+4.838	11.5
25	12 36 33	43 35	+ 1 31.1	4 35.9	53 58.9	0.6	14 44.0	0.2	187.793	+5.018	12.5
26	13 20 8	44 3	− 3 4.8	4 30.0	53 58.3	5.0	14 43.8	1.4	199.661	+4.980	13.5
27	14 4 11	45 12	− 7 34.8	4 14.6	54 3.3	10.3	14 45.2	2.8	211.554	+4.726	14.5
28	14 49 23	46 52	−11 49.4	3 48.8	54 13.6	15.1	14 48.0	4.1	223.495	+4.264	15.5
29	15 36 15	48 58	−15 38.2	3 12.2	54 28.7	20.0	14 52.1	5.5	235.507	+3.609	16.5
30	16 25 13	51 13	−18 50.4	2 24.2	54 48.7	25.1	14 57.6	6.8	247.616	+2.784	17.5
Mai 1	17 16 26	53 21	−21 14.6	1 25.7	55 13.8	30.3	15 4.4	8.3	259.852	+1.820	18.5
2	18 9 47	54 59	−22 40.3	0 18.6	55 44.1	35.6	15 12.7	9.7	272.256	+0.755	19.5
3	19 4 46		−22 58.9		56 19.7		15 22.4		284.877	−0.368	20.5

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° '	'	'	h m	m	h m	m	h m	m
März 23	8 47 38	134	+19 59.2	— 6.0	55.4	20 43.8	2.06	12 41	2.6	4 1	1.7
24	9 39 52	127	+17 8.3	— 8.1	54.9	21 31.9	1.95	13 46	2.7	4 37	1.4
25	10 29 32	121	+13 32.5	— 9.8	54.5	22 17.5	1.85	14 52	2.7	5 6	1.1
26	11 17 4	117	+ 9 24.0	—10.9	54.2	23 1.0	1.77	15 58	2.7	5 30	0.9
27	12 3 3	113	+ 4 54.3	—11.5	54.1	23 42.9	1.72	17 3	2.7	5 52	0.8
28	— — —	—	— —	—	—	— —	—	18 7	2.7	6 11	0.8
29	12 48 10	112	+ 0 14.3	—11.7	54.0	0 24.0	1.70	19 12	2.7	6 29	0.8
30	13 33 10	113	— 4 26.0	—11.5	54.0	1 4.9	1.71	20 16	2.7	6 48	0.8
31	14 18 46	115	— 8 56.6	—10.9	54.1	1 46.5	1.75	21 21	2.7	7 7	0.9
April 1	15 5 41	120	—13 7.2	— 9.9	54.3	2 29.3	1.82	22 27	2.7	7 29	1.0
2	15 54 33	125	—16 47.1	— 8.4	54.6	3 14.1	1.92	23 32	2.7	7 54	1.2
3	16 45 52	132	—19 44.5	— 6.3	55.1	4 1.4	2.02	— —	—	8 25	1.4
4	17 39 49	138	—21 47.5	— 3.8	55.7	4 51.2	2.13	0 35	2.6	9 4	1.8
5	18 36 17	144	—22 44.0	— 0.8	56.4	5 43.6	2.23	1 35	2.4	9 52	2.2
6	19 34 41	148	—22 24.2	+ 2.5	57.3	6 37.9	2.29	2 29	2.1	10 50	2.6
7	20 34 12	149	—20 42.3	+ 6.0	58.2	7 33.4	2.32	3 14	1.8	11 58	3.0
8	21 33 54	149	—17 38.8	+ 9.3	59.2	8 29.0	2.31	3 53	1.5	13 14	3.3
9	22 33 12	147	—13 21.1	+12.1	60.1	9 24.2	2.29	4 25	1.3	14 34	3.4
10	23 31 54	146	— 8 4.0	+14.2	60.8	10 18.8	2.26	4 53	1.1	15 57	3.5
11	0 30 13	146	— 2 8.8	+15.2	61.3	11 13.0	2.26	5 18	1.0	17 22	3.5
12	1 28 43	147	+ 3 58.8	+15.2	61.4	12 7.4	2.28	5 43	1.0	18 48	3.6
13	2 27 59	150	+ 9 50.5	+13.9	61.2	13 2.6	2.32	6 8	1.1	20 13	3.5
14	3 28 24	153	+14 58.9	+11.6	60.6	13 58.9	2.37	6 36	1.3	21 37	3.4
15	4 29 57	155	+19 0.5	+ 8.4	59.8	14 56.3	2.41	7 9	1.5	22 56	3.2
16	5 31 59	155	+21 39.4	+ 4.8	58.8	15 54.3	2.41	7 48	1.8	— —	—
17	6 33 26	152	+22 49.0	+ 1.1	57.8	16 51.6	2.36	8 35	2.1	0 9	2.8
18	7 33 3	146	+22 32.1	— 2.4	56.9	17 47.1	2.26	9 30	2.4	1 10	2.3
19	8 29 54	138	+20 58.7	— 5.3	56.0	18 39.9	2.13	10 31	2.6	2 0	1.9
20	9 23 36	130	+18 22.1	— 7.6	55.3	19 29.5	2.00	11 36	2.7	2 40	1.5
21	10 14 14	123	+14 56.5	— 9.4	54.8	20 16.1	1.88	12 43	2.8	3 11	1.2
22	11 2 19	118	+10 55.0	—10.6	54.4	21 0.1	1.79	13 49	2.7	3 37	1.0
23	11 48 31	114	+ 6 29.3	—11.4	54.1	21 42.3	1.73	14 54	2.7	3 59	0.9
24	12 33 37	112	+ 1 49.6	—11.8	54.0	22 23.3	1.70	15 59	2.7	4 18	0.8
25	13 18 26	112	— 2 54.1	—11.8	54.0	23 4.1	1.70	17 3	2.7	4 36	0.8
26	14 3 44	114	— 7 32.1	—11.3	54.1	23 45.3	1.74	18 8	2.7	4 54	0.8
27	— — —	—	— —	—	—	— —	—	19 13	2.7	5 13	0.8
28	14 50 16	118	—11 54.1	—10.4	54.2	0 27.8	1.80	20 19	2.8	5 34	0.9
29	15 38 39	124	—15 48.8	— 9.0	54.5	1 12.1	1.89	21 25	2.7	5 58	1.1
30	16 29 21	130	—19 4.2	— 7.1	54.8	1 58.7	2.00	22 30	2.6	6 27	1.3
Mai 1	17 22 33	136	—21 27.8	— 4.7	55.3	2 47.9	2.10	23 31	2.4	7 2	1.7
2	18 18 4	141	—22 47.7	— 1.9	55.8	3 39.3	2.18	— —	—	7 46	2.0
3	19 15 18	145	—22 54.3	+ 1.3	56.5	4 32.4	2.24	0 26	2.1	8 40	2.4

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1945	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Mai 3	19 4 46	55 56	−22 58.9	0 54.0	56 19.7	40.8	15 22.4	11.1	284.877	−0.368	20.5
4	20 0 42	56 5	−22 4.9	2 7.6	57 0.5	45.1	15 33.5	12.3	297.769	−1.498	21.5
5	20 56 47	55 42	−19 57.3	3 17.4	57 45.6	47.5	15 45.8	12.9	310.991	−2.577	22.5
6	21 52 29	55 3	−16 39.9	4 18.5	58 33.1	47.3	15 58.7	12.9	324.591	−3.543	23.5
7	22 47 32	54 34	−12 21.4	5 7.0	59 20.4	43.1	16 11.6	11.7	338.600	−4.328	24.5
8	23 42 6	54 32	− 7 14.4	5 38.8	60 3.5	34.3	16 23.3	9.4	353.015	−4.865	25.5
9	0 36 38	55 11	− 1 35.6	5 50.0	60 37.8	20.9	16 32.7	5.7	7.785	−5.097	26.5
10	1 31 49	56 27	+ 4 14.4	5 38.1	60 58.7	4.2	16 38.4	1.1	22.811	−4.985	27.5
11	2 28 16	58 11	+ 9 52.5	5 1.5	61 2.9	14.1	16 39.5	3.8	37.949	−4.527	28.5
12	3 26 27	59 53	+14 54.0	4 1.8	60 48.8	31.0	16 35.7	8.5	53.031	−3.755	0.2
13	4 26 20	60 59	+18 55.8	2 44.5	60 17.8	44.6	16 27.2	12.1	67.893	−2.737	1.2
14	5 27 19	60 53	+21 40.3	1 17.8	59 33.2	53.0	16 15.1	14.5	82.406	−1.560	2.2
15	6 28 12	59 24	+22 58.1	0 8.1	58 40.2	56.4	16 0.6	15.3	96.488	−0.318	3.2
16	7 27 36	56 46	+22 50.0	1 25.3	57 43.8	54.8	15 45.3	14.9	110.109	+0.904	4.2
17	8 24 22	53 32	+21 24.7	2 29.1	56 49.0	49.6	15 30.4	13.6	123.282	+2.040	5.2
18	9 17 54	50 17	+18 55.6	3 18.2	55 59.4	41.9	15 16.8	11.4	136.057	+3.040	6.2
19	10 8 11	47 29	+15 37.4	3 53.9	55 17.5	32.7	15 5.4	8.9	148.499	+3.868	7.2
20	10 55 40	45 21	+11 43.5	4 18.0	54 44.8	23.1	14 56.5	6.3	160.685	+4.503	8.2
21	11 41 1	44 1	+ 7 25.5	4 32.1	54 21.7	13.5	14 50.2	3.7	172.694	+4.929	9.2
22	12 25 2	43 30	+ 2 53.4	4 37.6	54 8.2	4.5	14 46.5	1.2	184.597	+5.138	10.2
23	13 8 32	43 48	− 1 44.2	4 34.4	54 3.7	3.4	14 45.3	0.9	196.461	+5.127	11.2
24	13 52 20	44 49	− 6 18.6	4 22.2	54 7.1	10.2	14 46.2	2.8	208.342	+4.895	12.2
25	14 37 9	46 31	−10 40.8	3 59.8	54 17.3	15.9	14 49.0	4.4	220.283	+4.449	13.2
26	15 23 40	48 41	−14 40.6	3 26.4	54 33.2	20.4	14 53.4	5.5	232.321	+3.802	14.2
27	16 12 21	51 6	−18 7.0	2 41.0	54 53.6	24.0	14 58.9	6.5	244.483	+2.976	15.2
28	17 3 27	53 22	−20 48.0	1 43.8	55 17.6	26.8	15 5.4	7.4	256.792	+2.000	16.2
29	17 56 49	55 8	−22 31.8	0 36.9	55 44.4	29.2	15 12.8	7.9	269.266	+0.914	17.2
30	18 51 57	56 3	−23 8.7	0 36.1	56 13.6	31.3	15 20.7	8.5	281.927	−0.235	18.2
31	19 48 0	56 1	−22 32.6	1 49.9	56 44.9	33.2	15 29.2	9.1	294.797	−1.393	19.2
Juni 1	20 44 1	55 17	−20 42.7	2 59.3	57 18.1	34.5	15 38.3	9.4	307.901	−2.500	20.2
2	21 39 18	54 13	−17 43.4	4 0.0	57 52.6	35.2	15 47.7	9.6	321.266	−3.494	21.2
3	22 33 31	53 15	−13 43.4	4 48.5	58 27.8	34.2	15 57.3	9.3	334.913	−4.313	22.2
4	23 26 46	52 48	− 8 54.9	5 22.2	59 2.0	31.3	16 6.6	8.5	348.854	−4.898	23.2
5	0 19 34	53 5	− 3 32.7	5 39.0	59 33.3	25.3	16 15.1	6.9	3.080	−5.198	24.2
6	1 12 39	54 11	+ 2 6.3	5 36.6	59 58.6	16.4	16 22.0	4.5	17.556	−5.177	25.2
7	2 6 50	55 59	+ 7 42.9	5 12.8	60 15.0	4.4	16 26.5	1.2	32.216	−4.821	26.2
8	3 2 49	58 11	+12 55.7	4 26.6	60 19.4	9.2	16 27.7	2.5	46.965	−4.146	27.2
9	4 1 0	60 12	+17 22.3	3 19.6	60 10.2	23.1	16 25.2	6.3	61.685	−3.198	28.2
10	5 1 12	61 17	+20 41.9	1 57.5	59 47.1	35.3	16 18.9	9.7	76.258	−2.049	29.2
11	6 2 29	60 56	+22 39.4	0 29.1	59 11.8	44.4	16 9.2	12.0	90.573	−0.788	0.8
12	7 3 25	59 3	+23 8.5	0 55.5	58 27.4	49.3	15 57.2	13.5	104.551	+0.493	1.8
13	8 2 28		+22 13.0		57 38.1		15 43.7		118.145	+1.713	2.8

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Mai 3	19 15 18	145	−22 54.3	+ 1.3	56.5	4 32.4	2.24	0 26	2.1	8 40	2.4
4	20 13 25	146	−21 42.3	+ 4.7	57.2	5 26.5	2.26	1 13	1.8	9 44	2.8
5	21 11 34	145	−19 11.6	+ 7.9	58.0	6 20.5	2.24	1 53	1.5	10 55	3.1
6	22 9 8	143	−15 28.0	+10.7	58.8	7 14.0	2.21	2 26	1.3	12 11	3.2
7	23 6 1	142	−10 42.3	+13.0	59.6	8 6.8	2.19	2 54	1.1	13 31	3.4
8	0 2 29	141	− 5 10.2	+14.5	60.3	8 59.2	2.18	3 19	1.0	14 52	3.4
9	0 59 12	143	+ 0 48.1	+15.2	60.8	9 51.8	2.21	3 43	1.0	16 16	3.5
10	1 56 56	146	+ 6 48.9	+14.7	61.0	10 45.5	2.27	4 7	1.0	17 40	3.5
11	2 56 22	151	+12 25.3	+13.1	61.0	11 40.8	2.35	4 33	1.2	19 5	3.5
12	3 57 47	156	+17 10.0	+10.4	60.6	12 38.1	2.43	5 3	1.4	20 29	3.4
13	5 0 52	159	+20 39.4	+ 6.9	59.9	13 37.1	2.48	5 38	1.7	21 47	3.1
14	6 4 29	158	+22 38.2	+ 3.0	59.0	14 36.6	2.47	6 22	2.0	22 56	2.6
15	7 7 1	154	+23 2.3	− 0.9	58.1	15 35.0	2.39	7 15	2.4	23 53	2.1
16	8 7 0	146	+21 58.9	− 4.3	57.1	16 30.9	2.26	8 16	2.6	— —	—
17	9 3 29	137	+19 42.2	− 7.0	56.2	17 23.3	2.11	9 22	2.8	0 39	1.7
18	9 56 19	128	+16 29.1	− 9.0	55.4	18 12.1	1.96	10 29	2.8	1 14	1.3
19	10 45 54	120	+12 35.0	−10.4	54.9	18 57.6	1.84	11 37	2.8	1 42	1.1
20	11 32 58	115	+ 8 13.3	−11.3	54.4	19 40.6	1.75	12 43	2.7	2 5	0.9
21	12 18 25	112	+ 3 35.1	−11.8	54.2	20 22.0	1.70	13 49	2.7	2 25	0.8
22	13 3 11	112	− 1 10.0	−11.9	54.1	21 2.7	1.69	14 53	2.7	2 43	0.7
23	13 48 9	113	− 5 53.0	−11.6	54.1	21 43.6	1.72	15 57	2.7	3 1	0.7
24	14 34 10	117	−10 24.1	−10.9	54.3	22 25.6	1.78	17 3	2.7	3 19	0.8
25	15 22 0	122	−14 32.7	− 9.7	54.5	23 9.3	1.87	18 9	2.8	3 39	0.9
26	16 12 12	129	−18 6.4	− 8.0	54.9	23 55.5	1.98	19 16	2.8	4 2	1.0
27	— — —	—	— —	—	—	— —	—	20 22	2.7	4 29	1.3
28	17 5 3	135	−20 52.1	− 5.7	55.3	0 44.2	2.09	21 25	2.5	5 2	1.6
29	18 0 26	141	−22 36.4	− 2.9	55.8	1 35.6	2.18	22 23	2.3	5 43	1.9
30	18 57 43	145	−23 8.4	+ 0.3	56.3	2 28.8	2.24	23 14	1.9	6 35	2.3
31	19 55 54	146	−22 21.6	+ 3.6	56.8	3 22.9	2.26	23 56	1.6	7 35	2.7
Juni 1	20 53 57	144	−20 15.6	+ 6.8	57.4	4 16.8	2.23	— —	—	8 44	3.0
2	21 51 4	141	−16 56.5	+ 9.7	58.0	5 9.8	2.18	0 30	1.3	9 58	3.1
3	22 46 58	138	−12 34.9	+12.0	58.6	6 1.7	2.14	0 59	1.1	11 15	3.2
4	23 41 55	137	− 7 25.4	+13.7	59.2	6 52.5	2.11	1 24	1.0	12 34	3.3
5	0 36 34	137	− 1 44.6	+14.6	59.7	7 43.1	2.11	1 47	1.0	13 53	3.3
6	1 31 50	140	+ 4 7.9	+14.6	60.1	8 34.3	2.16	2 10	1.0	15 14	3.4
7	2 28 37	145	+ 9 50.2	+13.7	60.3	9 27.0	2.24	2 33	1.0	16 37	3.4
8	3 27 40	151	+14 57.8	+11.8	60.3	10 21.9	2.34	3 0	1.2	18 0	3.4
9	4 29 11	157	+19 5.9	+ 8.8	60.0	11 19.3	2.44	3 31	1.5	19 21	3.2
10	5 32 35	160	+21 53.1	+ 5.1	59.5	12 18.6	2.49	4 11	1.8	20 35	2.9
11	6 36 25	159	+23 6.4	+ 1.0	58.8	13 18.4	2.47	4 59	2.2	21 40	2.4
12	7 38 52	153	+22 45.0	− 2.8	58.0	14 16.7	2.38	5 57	2.6	22 32	1.9
13	8 38 21	144	+20 59.1	− 6.0	57.1	15 12.1	2.23	7 2	2.8	23 12	1.5

Tag	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′	Diff. ° ′	Parallaxe ′ ″	Diff. ″	Halbmesser ′ ″	Diff. ″	Länge °	Breite °	Alter d
1945											
Juni 13	8 2 28	56 2	+22 13.0	2 8.5	57 38.1	50.0	15 43.7	13.6	118.145	+1.713	2.8
14	8 58 30	52 35	+20 4.5	3 5.8	56 48.1	46.8	15 30.1	12.7	131.345	+2.805	3.8
15	9 51 5	49 19	+16 58.7	3 47.4	56 1.3	40.5	15 17.4	11.1	144.172	+3.725	4.8
16	10 40 24	46 38	+13 11.3	4 15.3	55 20.8	32.1	15 6.3	8.7	156.671	+4.442	5.8
17	11 27 2	44 45	+ 8 56.0	4 31.7	54 48.7	22.5	14 57.6	6.2	168.905	+4.940	6.8
18	12 11 47	43 45	+ 4 24.3	4 38.7	54 26.2	12.3	14 51.4	3.3	180.946	+5.213	7.8
19	12 55 32	43 37	− 0 14.4	4 37.2	54 13.9	2.3	14 48.1	0.6	192.869	+5.257	8.8
20	13 39 9	44 22	− 4 51.6	4 27.5	54 11.6	7.2	14 47.5	1.9	204.748	+5.077	9.8
21	14 23 31	45 52	− 9 19.1	4 8.5	54 18.8	15.3	14 49.4	4.2	216.655	+4.679	10.8
22	15 9 23	48 1	−13 27.6	3 39.1	54 34.1	22.2	14 53.6	6.0	228.651	+4.074	11.8
23	15 57 24	50 35	−17 6.7	2 57.8	54 56.3	27.2	14 59.6	7.5	240.788	+3.279	12.8
24	16 47 59	53 13	−20 4.5	2 3.8	55 23.5	30.4	15 7.1	8.2	253.110	+2.321	13.8
25	17 41 12	55 24	−22 8.3	0 58.3	55 53.9	31.8	15 15.3	8.7	265.645	+1.236	14.8
26	18 36 36	56 45	−23 6.6	0 15.5	56 25.7	31.7	15 24.0	8.6	278.411	+0.068	15.8
27	19 33 21	56 59	−22 51.1	1 32.2	56 57.4	30.3	15 32.6	8.3	291.416	−1.124	16.8
28	20 30 20	56 14	−21 18.9	2 45.0	57 27.7	28.1	15 40.9	7.6	304.657	−2.279	17.8
29	21 26 34	54 53	−18 33.9	3 48.5	57 55.8	25.3	15 48.5	7.0	318.125	−3.327	18.8
30	22 21 27	53 26	−14 45.4	4 38.6	58 21.1	22.4	15 55.5	6.0	331.805	−4.202	19.8
Juli 1	23 14 53	52 23	−10 6.8	5 13.3	58 43.5	19.0	16 1.5	5.2	345.676	−4.846	20.8
2	0 7 16	52 2	− 4 53.5	5 31.2	59 2.5	15.1	16 6.7	4.1	359.715	−5.210	21.8
3	0 59 18	52 31	+ 0 37.7	5 31.6	59 17.6	10.3	16 10.8	2.8	13.891	−5.264	22.8
4	1 51 49	53 52	+ 6 9.3	5 13.6	59 27.9	4.3	16 13.6	1.2	28.167	−4.995	23.8
5	2 45 41	55 51	+11 22.9	4 36.2	59 32.2	3.1	16 14.8	0.8	42.497	−4.416	24.8
6	3 41 32	58 3	+15 59.1	3 39.5	59 29.1	11.5	16 14.0	3.2	56.827	−3.563	25.8
7	4 39 35	59 49	+19 38.6	2 26.4	59 17.6	20.5	16 10.8	5.5	71.092	−2.491	26.8
8	5 39 24	60 31	+22 5.0	1 2.6	58 57.1	28.8	16 5.3	7.9	85.228	−1.277	27.8
9	6 39 55	59 42	+23 7.6	0 23.2	58 28.3	35.8	15 57.4	9.7	99.169	−0.002	28.8
10	7 39 37	57 31	+22 44.4	1 41.9	57 52.5	40.1	15 47.7	11.0	112.860	+1.250	0.4
11	8 37 8	54 26	+21 2.5	2 47.2	57 12.4	41.7	15 36.7	11.3	126.260	+2.405	1.4
12	9 31 34	51 8	+18 15.3	3 36.5	56 30.7	40.0	15 25.4	10.9	139.350	+3.406	2.4
13	10 22 42	48 10	+14 38.8	4 10.2	55 50.7	35.6	15 14.5	9.7	152.129	+4.210	3.4
14	11 10 52	45 51	+10 28.6	4 30.6	55 15.1	28.6	15 4.8	7.8	164.621	+4.794	4.4
15	11 56 43	44 21	+ 5 58.0	4 39.8	54 46.5	20.0	14 57.0	5.5	176.865	+5.146	5.4
16	12 41 4	43 44	+ 1 18.2	4 39.9	54 26.5	10.2	14 51.5	2.8	188.919	+5.264	6.4
17	13 24 48	43 59	− 3 21.7	4 31.6	54 16.3	0.1	14 48.7	0.1	200.851	+5.154	7.4
18	14 8 47	45 7	− 7 53.3	4 15.0	54 16.4	10.3	14 48.8	2.8	212.735	+4.823	8.4
19	14 53 54	46 59	−12 8.3	3 49.1	54 26.7	19.9	14 51.6	5.4	224.648	+4.285	9.4
20	15 40 53	49 27	−15 57.4	3 12.2	54 46.6	28.1	14 57.0	7.7	236.668	+3.555	10.4
21	16 30 20	52 15	−19 9.6	2 23.4	55 14.7	34.6	15 4.7	9.4	248.864	+2.655	11.4
22	17 22 35	54 53	−21 33.0	1 21.8	55 49.3	38.5	15 14.1	10.5	261.300	+1.614	12.4
23	18 17 28	56 53	−22 54.8	0 9.7	56 27.8	39.8	15 24.6	10.8	274.021	+0.471	13.4
24	19 14 21		−23 4.5		57 7.6		15 35.4		287.056	−0.723	14.4

0h Welt-Zeit

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 13	8 38 21	144	+20 59.1	− 6.0	57.1	15 12.1	2.23	7 2	2.8	23 12	1.5
14	9 34 5	134	+18 5.5	− 8.4	56.3	16 3.7	2.07	8 11	2.9	23 44	1.2
15	10 26 3	126	+14 22.4	−10.1	55.5	16 51.6	1.92	9 21	2.9	— —	—
16	11 14 50	119	+10 6.1	−11.2	54.9	17 36.3	1.81	10 29	2.8	0 9	1.0
17	12 1 18	114	+ 5 29.7	−11.8	54.5	18 18.8	1.73	11 36	2.7	0 31	0.8
18	12 46 27	112	+ 0 43.9	−12.0	54.3	18 59.9	1.70	12 41	2.7	0 49	0.8
19	13 31 16	112	− 4 2.1	−11.8	54.2	19 40.6	1.70	13 45	2.7	1 7	0.7
20	14 16 43	115	− 8 39.5	−11.3	54.3	20 22.0	1.75	14 50	2.7	1 25	0.8
21	15 3 42	120	−12 58.7	−10.3	54.5	21 4.9	1.83	15 56	2.8	1 44	0.8
22	15 52 58	126	−16 48.4	− 8.8	54.9	21 50.1	1.94	17 2	2.8	2 5	1.0
23	16 45 2	134	−19 55.7	− 6.7	55.4	22 38.1	2.06	18 10	2.8	2 30	1.2
24	17 40 2	141	−22 6.3	− 4.1	55.9	23 29.0	2.18	19 15	2.6	3 1	1.4
25	— — —	—	— —	—	—	— —	—	20 16	2.4	3 40	1.8
26	18 37 29	146	−23 7.0	− 0.9	56.4	0 22.4	2.26	21 10	2.1	4 28	2.2
27	19 36 25	148	−22 48.1	+ 2.5	57.0	1 17.2	2.30	21 56	1.7	5 26	2.6
28	20 35 33	147	−21 6.7	+ 5.9	57.5	2 12.3	2.28	22 33	1.4	6 34	2.9
29	21 33 45	144	−18 7.6	+ 8.9	58.0	3 6.4	2.22	23 4	1.2	7 48	3.1
30	22 30 24	140	−14 2.2	+11.4	58.4	3 59.0	2.16	23 30	1.0	9 4	3.2
Juli 1	23 25 30	136	− 9 6.0	+13.1	58.8	4 50.0	2.10	23 53	0.9	10 22	3.3
2	0 19 33	135	− 3 36.3	+14.2	59.1	5 39.9	2.07	— —	—	11 40	3.3
3	1 13 25	135	+ 2 8.1	+14.4	59.3	6 29.7	2.08	0 15	0.9	12 59	3.3
4	2 8 7	139	+ 7 48.0	+13.8	59.5	7 20.4	2.14	0 37	1.0	14 19	3.3
5	3 4 33	144	+13 2.6	+12.3	59.5	8 12.7	2.23	1 2	1.1	15 40	3.3
6	4 3 21	150	+17 30.2	+ 9.9	59.4	9 7.4	2.33	1 30	1.3	16 59	3.2
7	5 4 31	155	+20 49.8	+ 6.6	59.2	10 4.5	2.42	2 5	1.6	18 15	3.0
8	6 7 16	158	+22 44.6	+ 2.9	58.7	11 3.1	2.46	2 48	2.0	19 24	2.6
9	7 10 2	155	+23 6.5	− 1.0	58.2	12 1.8	2.42	3 41	2.4	20 21	2.1
10	8 11 4	149	+21 58.3	− 4.6	57.5	12 58.7	2.31	4 43	2.7	21 7	1.7
11	9 9 1	140	+19 32.8	− 7.4	56.8	13 52.6	2.17	5 51	2.9	21 42	1.3
12	10 3 18	131	+16 7.4	− 9.6	56.1	14 42.8	2.02	7 2	2.9	22 11	1.1
13	10 54 6	123	+12 0.2	−10.9	55.5	15 29.5	1.88	8 12	2.9	22 34	0.9
14	11 42 4	117	+ 7 27.2	−11.7	54.9	16 13.4	1.78	9 20	2.8	22 54	0.8
15	12 28 5	113	+ 2 41.1	−12.0	54.5	16 55.4	1.72	10 26	2.7	23 12	0.7
16	13 13 9	112	− 2 7.6	−12.0	54.3	17 36.4	1.70	11 31	2.7	23 30	0.7
17	13 58 15	113	− 6 49.9	−11.5	54.3	18 17.4	1.72	12 36	2.7	23 48	0.8
18	14 44 21	117	−11 16.9	−10.7	54.4	18 59.5	1.78	13 41	2.7	— —	—
19	15 32 21	123	−15 18.9	− 9.4	54.7	19 43.4	1.88	14 47	2.8	0 8	0.9
20	16 22 57	130	−18 44.3	− 7.6	55.2	20 29.9	2.00	15 54	2.8	0 32	1.1
21	17 16 37	138	−21 19.8	− 5.2	55.8	21 19.5	2.13	17 0	2.7	0 59	1.3
22	18 13 16	145	−22 51.1	− 2.3	56.4	22 12.1	2.24	18 3	2.5	1 35	1.7
23	19 12 14	149	−23 5.5	+ 1.1	57.1	23 7.0	2.32	19 2	2.2	2 19	2.1
24	— — —	—	— —	—	—	— —	—	19 51	1.9	3 14	2.5

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1945		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Juli	24	19 14 21	57 51	−23 4.5	1 8.8	57 7.6	38.3	15 35.4	10.4	287.056	−0.723	14.4
	25	20 12 12	57 37	−21 55.7	2 26.6	57 45.9	34.0	15 45.8	9.3	300.411	−1.904	15.4
	26	21 9 49	56 29	−19 29.1	3 36.6	58 19.9	27.7	15 55.1	7.6	314.068	−3.003	16.4
	27	22 6 18	54 56	−15 52.5	4 33.0	58 47.6	20.3	16 2.7	5.5	327.986	−3.944	17.4
	28	23 1 14	53 31	−11 19.5	5 12.1	59 7.9	12.3	16 8.2	3.4	342.105	−4.659	18.4
	29	23 54 45	52 37	− 6 7.4	5 32.7	59 20.2	5.0	16 11.6	1.3	356.355	−5.094	19.4
	30	0 47 22	52 30	− 0 34.7	5 34.4	59 25.2	1.6	16 12.9	0.4	10.662	−5.215	20.4
	31	1 39 52	53 11	+ 4 59.7	5 17.7	59 23.6	7.2	16 12.5	2.0	24.962	−5.014	21.4
Aug.	1	2 33 3	54 36	+10 17.4	4 42.7	59 16.4	11.9	16 10.5	3.2	39.200	−4.506	22.4
	2	3 27 39	56 24	+15 0.1	3 50.7	59 4.5	16.1	16 7.3	4.4	53.338	−3.728	23.4
	3	4 24 3	58 7	+18 50.8	2 43.4	58 48.4	20.2	16 2.9	5.5	67.347	−2.733	24.4
	4	5 22 10	59 8	+21 34.2	1 25.2	58 28.2	24.2	15 57.4	6.6	81.207	−1.587	25.4
	5	6 21 18	58 59	+22 59.4	0 2.5	58 4.0	27.7	15 50.8	7.6	94.901	−0.365	26.4
	6	7 20 17	57 32	+23 1.9	1 17.0	57 36.3	30.9	15 43.2	8.4	108.412	+0.860	27.4
	7	8 17 49	55 4	+21 44.9	2 26.5	57 5.4	32.8	15 34.8	8.9	121.721	+2.017	28.4
	8	9 12 53	52 8	+19 18.4	3 21.8	56 32.6	33.3	15 25.9	9.1	134.812	+3.047	0.0
	9	10 5 1	49 14	+15 56.6	4 1.8	55 59.3	32.0	15 16.8	8.7	147.671	+3.900	1.0
	10	10 54 15	46 48	+11 54.8	4 27.4	55 27.3	28.6	15 8.1	7.8	160.295	+4.545	2.0
	11	11 41 3	45 2	+ 7 27.4	4 40.4	54 58.7	23.1	15 0.3	6.3	172.690	+4.961	3.0
	12	12 26 5	44 2	+ 2 47.0	4 42.9	54 35.6	16.0	14 54.0	4.4	184.879	+5.144	4.0
	13	13 10 7	43 53	− 1 55.9	4 36.3	54 19.6	7.4	14 49.6	2.0	196.902	+5.097	5.0
	14	13 54 0	44 32	− 6 32.2	4 21.1	54 12.2	2.4	14 47.6	0.7	208.809	+4.828	6.0
	15	14 38 32	45 57	−10 53.3	3 57.3	54 14.6	12.6	14 48.3	3.4	220.669	+4.354	7.0
	16	15 24 29	48 4	−14 50.6	3 23.9	54 27.2	22.8	14 51.7	6.2	232.556	+3.692	8.0
	17	16 12 33	50 38	−18 14.5	2 39.8	54 50.0	32.3	14 57.9	8.8	244.552	+2.862	9.0
	18	17 3 11	53 22	−20 54.3	1 43.8	55 22.3	40.4	15 6.7	11.0	256.742	+1.890	10.0
	19	17 56 33	55 48	−22 38.1	0 36.4	56 2.7	46.1	15 17.7	12.6	269.205	+0.809	11.0
	20	18 52 21	57 29	−23 14.5	0 39.9	56 48.8	48.8	15 30.3	13.3	282.010	−0.339	12.0
	21	19 49 50	58 5	−22 34.6	1 59.7	57 37.6	47.5	15 43.6	12.9	295.207	−1.502	13.0
	22	20 47 55	57 40	−20 34.9	3 16.1	58 25.1	42.3	15 56.5	11.6	308.814	−2.614	14.0
	23	21 45 35	56 34	−17 18.8	4 21.8	59 7.4	33.3	16 8.1	9.0	322.817	−3.599	15.0
	24	22 42 9	55 17	−12 57.0	5 10.7	59 40.7	21.4	16 17.1	5.9	337.157	−4.381	16.0
	25	23 37 26	54 16	− 7 46.3	5 39.4	60 2.1	8.4	16 23.0	2.2	351.738	−4.893	17.0
	26	0 31 42	53 51	− 2 6.9	5 46.4	60 10.5	4.3	16 25.2	1.1	6.440	−5.088	18.0
	27	1 25 33	54 8	+ 3 39.5	5 32.1	60 6.2	15.2	16 24.1	4.2	21.137	−4.949	19.0
	28	2 19 41	55 3	+ 9 11.6	4 57.7	59 51.0	23.3	16 19.9	6.3	35.716	−4.489	20.0
	29	3 14 44	56 24	+14 9.3	4 5.6	59 27.7	28.7	16 13.6	7.8	50.095	−3.751	21.0
	30	4 11 8	57 43	+18 14.9	2 58.8	58 59.0	31.6	16 5.8	8.6	64.223	−2.794	22.0
	31	5 8 51	58 29	+21 13.7	1 41.9	58 27.4	32.7	15 57.2	8.9	78.086	−1.690	23.0
Sept.	1	6 7 20	58 21	+22 55.6	0 20.6	57 54.7	32.6	15 48.3	8.9	91.690	−0.509	24.0
	2	7 5 41	57 5	+23 16.2	0 58.3	57 22.1	31.8	15 39.4	8.7	105.052	+0.678	25.0
	3	8 2 46		+22 17.9		56 50.3		15 30.7		118.195	+1.807	26.0

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	0^h Länge, + 50° Breite: Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 24	— — —	—	— —	—	—	— —	—	19 51	1.9	3 14	2.5
25	20 12 19	150	−21 55.5	+ 4.7	57.8	0 3.0	2.34	20 32	1.6	4 19	2.9
26	21 12 9	148	−19 21.5	+ 8.1	58.4	0 58.7	2.30	21 6	1.3	5 32	3.1
27	22 10 41	144	−15 32.8	+10.9	58.8	1 53.1	2.23	21 34	1.1	6 50	3.3
28	23 7 28	140	−10 45.2	+12.9	59.2	2 45.8	2.16	21 58	1.0	8 10	3.3
29	0 2 43	137	− 5 18.1	+14.2	59.4	3 37.0	2.11	22 20	0.9	9 29	3.3
30	0 57 6	136	+ 0 27.8	+14.5	59.4	4 27.3	2.09	22 43	1.0	10 48	3.3
31	1 51 30	137	+ 6 11.9	+14.0	59.4	5 17.6	2.11	23 6	1.0	12 8	3.3
Aug. 1	2 46 53	140	+11 33.8	+12.7	59.2	6 8.9	2.17	23 33	1.2	13 27	3.3
2	3 43 59	145	+16 13.8	+10.5	59.0	7 1.9	2.25	— —	—	14 46	3.2
3	4 43 8	150	+19 53.0	+ 7.6	58.7	7 57.0	2.33	0 4	1.5	16 2	3.1
4	5 44 1	154	+22 15.3	+ 4.2	58.3	8 53.8	2.39	0 43	1.8	17 12	2.7
5	6 45 37	154	+23 10.4	+ 0.4	57.9	9 51.3	2.39	1 31	2.2	18 12	2.3
6	7 46 25	150	+22 36.6	− 3.2	57.4	10 48.0	2.33	2 29	2.6	19 1	1.8
7	8 45 2	143	+20 41.3	− 6.3	56.8	11 42.5	2.21	3 35	2.8	19 40	1.5
8	9 40 33	135	+17 38.7	− 8.8	56.3	12 33.9	2.07	4 44	2.9	20 11	1.2
9	10 32 47	127	+13 45.9	−10.5	55.7	13 22.1	1.94	5 54	2.9	20 36	1.0
10	11 22 3	120	+ 9 19.7	−11.6	55.2	14 7.3	1.83	7 4	2.9	20 58	0.8
11	12 9 3	115	+ 4 34.9	−12.1	54.7	14 50.2	1.75	8 11	2.8	21 16	0.8
12	12 54 38	113	− 0 16.4	−12.1	54.4	15 31.8	1.71	9 17	2.7	21 34	0.7
13	13 39 43	113	− 5 3.8	−11.8	54.2	16 12.8	1.71	10 23	2.7	21 52	0.8
14	14 25 15	115	− 9 38.2	−11.0	54.2	16 54.3	1.75	11 28	2.7	22 11	0.8
15	15 12 5	119	−13 50.3	− 9.9	54.4	17 37.0	1.82	12 33	2.7	22 33	1.0
16	16 1 3	126	−17 30.2	− 8.3	54.7	18 21.9	1.92	13 39	2.7	22 58	1.2
17	16 52 45	133	−20 26.2	− 6.2	55.3	19 9.6	2.05	14 44	2.7	23 30	1.5
18	17 47 29	141	−22 25.2	− 3.6	55.9	20 0.2	2.17	15 48	2.6	— —	—
19	18 45 1	147	−23 13.9	− 0.4	56.7	20 53.7	2.28	16 49	2.4	0 9	1.9
20	19 44 34	150	−22 41.6	+ 3.1	57.6	21 49.1	2.34	17 42	2.0	0 59	2.3
21	20 44 54	151	−20 43.0	+ 6.7	58.4	22 45.4	2.34	18 27	1.7	1 59	2.7
22	21 44 50	149	−17 21.8	+10.0	59.1	23 41.2	2.31	19 3	1.4	3 10	3.1
23	— — —	—	— —	—	—	— —	—	19 34	1.2	4 28	3.3
24	22 43 32	145	−12 49.8	+12.6	59.7	0 35.8	2.25	20 0	1.0	5 48	3.4
25	23 40 49	142	− 7 25.9	+14.3	60.0	1 29.0	2.19	20 24	1.0	7 11	3.4
26	0 36 59	140	− 1 32.9	+15.0	60.2	2 21.1	2.16	20 47	1.0	8 33	3.4
27	1 32 46	140	+ 4 25.2	+14.7	60.1	3 12.8	2.16	21 10	1.0	9 54	3.4
28	2 28 58	142	+10 5.1	+13.5	59.8	4 4.9	2.19	21 36	1.2	11 16	3.4
29	3 26 18	145	+15 5.0	+11.4	59.4	4 58.1	2.25	22 6	1.4	12 36	3.3
30	4 25 10	149	+19 5.4	+ 8.5	58.9	5 52.9	2.31	22 42	1.7	13 53	3.1
31	5 25 25	152	+21 50.8	+ 5.2	58.3	6 49.1	2.36	23 27	2.1	15 5	2.8
Sept. 1	6 26 17	152	+23 11.2	+ 1.5	57.7	7 45.8	2.36	— —	—	16 7	2.4
2	7 26 34	149	+23 3.9	− 2.1	57.2	8 42.0	2.31	0 21	2.4	16 59	1.9
3	8 25 3	143	+21 34.2	− 5.3	56.6	9 36.4	2.21	1 24	2.7	17 40	1.5

Tag	0ʰ Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1945	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Sept. 3	8 2 46	54 55	+22 17.9	2 8.9	56 50.3	30.7	15 30.7	8.4	118.195	+1.807	26.0
4	8 57 41	52 15	+20 9.0	3 7.3	56 19.6	29.4	15 22.3	8.0	131.139	+2.823	27.0
5	9 49 56	49 34	+17 1.7	3 51.6	55 50.2	27.4	15 14.3	7.4	143.895	+3.679	28.0
6	10 39 30	47 11	+13 10.1	4 21.9	55 22.8	25.0	15 6.9	6.9	156.473	+4.342	29.0
7	11 26 41	45 23	+ 8 48.2	4 39.4	54 57.8	21.6	15 0.0	5.8	168.877	+4.787	0.4
8	12 12 4	44 15	+ 4 8.8	4 45.4	54 36.2	17.0	14 54.2	4.7	181.113	+5.004	1.4
9	12 56 19	43 53	− 0 36.6	4 41.4	54 19.2	11.2	14 49.5	3.0	193.196	+4.992	2.4
10	13 40 12	44 13	− 5 18.0	4 28.2	54 8.0	4.0	14 46.5	1.1	205.150	+4.760	3.4
11	14 24 25	45 17	− 9 46.2	4 5.9	54 4.0	4.4	14 45.4	1.2	217.013	+4.323	4.4
12	15 9 42	46 57	−13 52.1	3 34.5	54 8.4	13.7	14 46.6	3.7	228.835	+3.702	5.4
13	15 56 39	49 9	−17 26.6	2 53.5	54 22.1	23.5	14 50.3	6.4	240.682	+2.918	6.4
14	16 45 48	51 34	−20 20.1	2 1.9	54 45.6	33.4	14 56.7	9.1	252.631	+2.000	7.4
15	17 37 22	53 57	−22 22.0	1 0.0	55 19.0	42.5	15 5.8	11.6	264.769	+0.977	8.4
16	18 31 19	55 51	−23 22.0	0 11.2	56 1.5	50.1	15 17.4	13.7	277.182	−0.115	9.4
17	19 27 10	56 59	−23 10.8	1 28.3	56 51.6	54.9	15 31.1	14.9	289.957	−1.231	10.4
18	20 24 9	57 17	−21 42.5	2 45.9	57 46.5	55.9	15 46.0	15.2	303.165	−2.317	11.4
19	21 21 26	56 51	−18 56.6	3 58.0	58 42.4	52.0	16 1.2	14.2	316.848	−3.308	12.4
20	22 18 17	56 6	−14 58.6	4 57.5	59 34.4	42.8	16 15.4	11.7	331.010	−4.131	13.4
21	23 14 23	55 28	−10 1.1	5 38.9	60 17.2	29.1	16 27.1	7.9	345.601	−4.712	14.4
22	0 9 51	55 14	− 4 22.2	5 58.2	60 46.3	12.1	16 35.0	3.3	0.516	−4.988	15.4
23	1 5 5	55 35	+ 1 36.0	5 53.2	60 58.4	5.5	16 38.3	1.5	15.606	−4.922	16.4
24	2 0 40	56 31	+ 7 29.2	5 23.9	60 52.9	21.6	16 36.8	5.9	30.699	−4.514	17.4
25	2 57 11	57 47	+12 53.1	4 32.9	60 31.3	34.1	16 30.9	9.3	45.634	−3.801	18.4
26	3 54 58	58 57	+17 26.0	3 24.0	59 57.2	42.1	16 21.6	11.4	60.287	−2.847	19.4
27	4 53 55	59 33	+20 50.0	2 3.7	59 15.1	45.7	16 10.2	12.5	74.582	−1.733	20.4
28	5 53 28	59 7	+22 53.7	0 39.1	58 29.4	45.8	15 57.7	12.5	88.493	−0.543	21.4
29	6 52 35	57 36	+23 32.8	0 42.5	57 43.6	43.3	15 45.2	11.8	102.034	+0.648	22.4
30	7 50 11	55 14	+22 50.3	1 55.3	57 0.3	39.3	15 33.4	10.7	115.242	+1.774	23.4
Okt. 1	8 45 25	52 24	+20 55.0	2 55.6	56 21.0	34.7	15 22.7	9.4	128.163	+2.782	24.4
2	9 37 49	49 37	+17 59.4	3 42.3	55 46.3	29.7	15 13.3	8.1	140.846	+3.632	25.4
3	10 27 26	47 13	+14 17.1	4 15.6	55 16.6	25.0	15 5.2	6.8	153.332	+4.292	26.4
4	11 14 39	45 22	+10 1.5	4 36.7	54 51.6	20.4	14 58.4	5.6	165.656	+4.741	27.4
5	12 0 1	44 12	+ 5 24.8	4 46.3	54 31.2	15.9	14 52.8	4.3	177.842	+4.967	28.4
6	12 44 13	43 46	+ 0 38.5	4 45.6	54 15.3	11.2	14 48.5	3.1	189.909	+4.967	29.4
7	13 27 59	44 0	− 4 7.1	4 35.3	54 4.1	6.0	14 45.4	1.6	201.875	+4.746	0.8
8	14 11 59	44 54	− 8 42.4	4 15.3	53 58.1	0.2	14 43.8	0.1	213.757	+4.320	1.8
9	14 56 53	46 22	−12 57.7	3 45.8	53 57.9	6.5	14 43.7	1.8	225.585	+3.707	2.8
10	15 43 15	48 15	−16 43.5	3 6.6	54 4.4	14.1	14 45.5	3.8	237.395	+2.934	3.8
11	16 31 30	50 22	−19 50.1	2 17.6	54 18.5	22.4	14 49.3	6.2	249.236	+2.029	4.8
12	17 21 52	52 25	−22 7.7	1 18.9	54 40.9	31.4	14 55.5	8.5	261.172	+1.027	5.8
13	18 14 17	54 8	−23 26.6	0 12.1	55 12.3	40.3	15 4.0	11.0	273.276	−0.037	6.8
14	19 8 25		−23 38.7		55 52.6		15 15.0		285.632	−1.123	7.8

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Sept. 3	8 25 3	143	+21 34.2	— 5.3	56.6	9 36.4	2.21	1 24	2.7	17 40	1.5
4	9 20 49	135	+18 53.7	— 8.0	56.1	10 28.1	2.09	2 31	2.9	18 13	1.2
5	10 13 33	128	+15 17.5	— 9.9	55.6	11 16.8	1.97	3 41	2.9	18 40	1.0
6	11 3 26	122	+11 1.7	—11.3	55.2	12 2.6	1.86	4 50	2.9	19 2	0.9
7	11 51 0	117	+ 6 21.0	—12.0	54.8	12 46.1	1.77	5 58	2.8	19 21	0.8
8	12 36 59	114	+ 1 28.7	—12.3	54.4	13 28.0	1.72	7 5	2.8	19 39	0.7
9	13 22 12	113	— 3 23.7	—12.0	54.2	14 9.2	1.71	8 10	2.7	19 57	0.7
10	14 7 27	114	— 8 6.0	—11.4	54.1	14 50.4	1.73	9 16	2.7	20 15	0.8
11	14 53 34	117	—12 28.5	—10.4	54.1	15 32.4	1.78	10 21	2.7	20 35	0.9
12	15 41 18	122	—16 21.5	— 8.9	54.3	16 16.1	1.86	11 26	2.7	20 58	1.1
13	16 31 17	128	—19 34.6	— 7.1	54.6	17 2.0	1.97	12 32	2.7	21 27	1.3
14	17 23 54	135	—21 56.2	— 4.7	55.2	17 50.5	2.08	13 36	2.6	22 2	1.7
15	18 19 12	141	—23 14.6	— 1.8	55.9	18 41.8	2.19	14 36	2.4	22 46	2.1
16	19 16 47	146	—23 18.5	+ 1.5	56.7	19 35.3	2.26	15 32	2.1	23 40	2.5
17	20 15 49	149	—22 0.3	+ 5.0	57.6	20 30.2	2.30	16 19	1.8	— —	—
18	21 15 18	149	—19 18.0	+ 8.5	58.6	21 25.6	2.30	16 59	1.5	0 46	2.9
19	22 14 23	147	—15 17.1	+11.5	59.5	22 20.6	2.27	17 32	1.3	2 0	3.2
20	23 12 38	145	—10 11.2	+13.8	60.3	23 14.7	2.24	18 0	1.1	3 20	3.4
21	— — —	—	— —	—	—	— —	—	18 25	1.0	4 42	3.5
22	0 10 10	143	— 4 20.2	+15.2	60.8	0 8.2	2.22	18 48	1.0	6 6	3.5
23	1 7 26	143	+ 1 51.3	+15.5	61.0	1 1.4	2.22	19 11	1.0	7 31	3.5
24	2 5 8	145	+ 7 56.4	+14.7	60.9	1 55.0	2.25	19 36	1.1	8 55	3.5
25	3 3 56	149	+13 28.3	+12.8	60.5	2 49.7	2.31	20 5	1.3	10 19	3.4
26	4 4 9	152	+18 2.9	+10.0	59.9	3 45.8	2.37	20 40	1.6	11 41	3.3
27	5 5 37	155	+21 20.9	+ 6.5	59.1	4 43.2	2.41	21 23	2.0	12 57	3.0
28	6 7 32	154	+23 10.6	+ 2.7	58.3	5 41.0	2.40	22 15	2.3	14 4	2.5
29	7 8 42	151	+23 28.9	— 1.1	57.5	6 38.1	2.34	23 16	2.6	14 59	2.1
30	8 7 51	145	+22 21.3	— 4.5	56.8	7 33.1	2.24	— —	—	15 43	1.6
Okt. 1	9 4 8	137	+19 59.6	— 7.2	56.1	8 25.3	2.11	0 22	2.8	16 18	1.3
2	9 57 14	129	+16 38.6	— 9.4	55.6	9 14.3	1.98	1 30	2.9	16 45	1.0
3	10 47 23	122	+12 33.8	—10.9	55.1	10 0.4	1.87	2 39	2.9	17 8	0.9
4	11 35 7	117	+ 7 59.6	—11.9	54.7	10 44.1	1.78	3 48	2.8	17 27	0.8
5	12 21 10	114	+ 3 9.0	—12.3	54.4	11 26.1	1.72	4 55	2.8	17 45	0.7
6	13 6 20	112	— 1 46.4	—12.3	54.2	12 7.2	1.70	6 0	2.7	18 2	0.7
7	13 51 23	113	— 6 35.9	—11.8	54.0	12 48.2	1.72	7 6	2.7	18 20	0.8
8	14 37 5	116	—11 9.0	—10.9	54.0	13 29.8	1.76	8 11	2.7	18 39	0.9
9	15 24 8	120	—15 15.6	— 9.6	54.0	14 12.8	1.83	9 17	2.7	19 1	1.0
10	16 13 5	125	—18 45.1	— 7.8	54.2	14 57.7	1.92	10 22	2.7	19 27	1.2
11	17 4 18	131	—21 26.5	— 5.6	54.5	15 44.8	2.01	11 26	2.6	19 58	1.5
12	17 57 51	137	—23 8.9	— 2.9	55.0	16 34.3	2.11	12 28	2.5	20 38	1.9
13	18 53 28	141	—23 42.4	+ 0.2	55.7	17 25.9	2.18	13 25	2.2	21 28	2.3
14	19 50 30	144	—22 59.4	+ 3.4	56.5	18 18.8	2.22	14 14	1.9	22 27	2.7

Mond 1945

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1945	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Okt. 14	19 8 25	55 14	−23 38.7	1 0.3	55 52.6	48.5	15 15.0	13.2	285.632	−1.123	7.8
15	20 3 39	55 40	−22 38.4	2 14.8	56 41.1	55.0	15 28.2	15.0	298.326	−2.183	8.8
16	20 59 19	55 32	−20 23.6	3 26.5	57 36.1	58.3	15 43.2	15.9	311.438	−3.164	9.8
17	21 54 51	55 8	−16 57.1	4 30.7	58 34.4	57.4	15 59.1	15.6	325.028	−4.003	10.8
18	22 49 59	54 51	−12 26.4	5 21.7	59 31.8	51.1	16 14.7	13.9	339.125	−4.634	11.8
19	23 44 50	55 0	− 7 4.7	5 54.7	60 22.9	38.9	16 28.6	10.6	353.706	−4.989	12.8
20	0 39 50	55 44	− 1 10.0	6 5.3	61 1.8	21.7	16 39.2	5.9	8.689	−5.018	13.8
21	1 35 34	57 6	+ 4 55.3	5 50.1	61 23.5	1.6	16 45.1	0.5	23.933	−4.694	14.8
22	2 32 40	58 53	+10 45.4	5 8.4	61 25.1	18.4	16 45.6	5.0	39.256	−4.033	15.8
23	3 31 33	60 37	+15 53.8	4 2.9	61 6.7	35.6	16 40.6	9.7	54.470	−3.088	16.8
24	4 32 10	61 39	+19 56.7	2 40.0	60 31.1	47.8	16 30.9	13.1	69.409	−1.944	17.8
25	5 33 49	61 28	+22 36.7	1 8.7	59 43.3	54.4	16 17.8	14.8	83.961	−0.698	18.8
26	6 35 17	59 49	+23 45.4	0 20.7	58 48.9	55.8	16 3.0	15.2	98.068	+0.556	19.8
27	7 35 6	57 4	+23 24.7	1 40.2	57 53.1	53.1	15 47.8	14.4	111.725	+1.741	20.8
28	8 32 10	53 43	+21 44.5	2 45.3	57 0.0	47.6	15 33.4	13.0	124.964	+2.795	21.8
29	9 25 53	50 26	+18 59.2	3 35.1	56 12.4	40.6	15 20.4	11.1	137.840	+3.677	22.8
30	10 16 19	47 37	+15 24.1	4 10.5	55 31.8	33.0	15 9.3	9.0	150.415	+4.359	23.8
31	11 3 56	45 27	+11 13.6	4 33.6	54 58.8	25.4	15 0.3	6.9	162.753	+4.823	24.8
Nov. 1	11 49 23	44 7	+ 6 40.0	4 45.8	54 33.4	18.5	14 53.4	5.0	174.911	+5.060	25.8
2	12 33 30	43 32	+ 1 54.2	4 48.0	54 14.9	12.0	14 48.4	3.3	186.938	+5.071	26.8
3	13 17 2	43 42	− 2 53.8	4 40.7	54 2.9	6.2	14 45.1	1.7	198.872	+4.859	27.8
4	14 0 44	44 35	− 7 34.5	4 24.0	53 56.7	0.9	14 43.4	0.2	210.746	+4.437	28.8
5	14 45 19	46 0	−11 58.5	3 57.2	53 55.8	4.3	14 43.2	1.1	222.588	+3.824	0.0
6	15 31 19	47 52	−15 55.7	3 20.2	54 0.1	9.6	14 44.3	2.7	234.422	+3.044	1.0
7	16 19 11	49 54	−19 15.9	2 32.8	54 9.7	15.2	14 47.0	4.1	246.279	+2.129	2.0
8	17 9 5	51 50	−21 48.7	1 35.8	54 24.9	21.3	14 51.1	5.8	258.193	+1.114	3.0
9	18 0 55	53 20	−23 24.5	0 30.8	54 46.2	28.1	14 56.9	7.6	270.208	+0.037	4.0
10	18 54 15	54 12	−23 55.3	0 39.3	55 14.3	35.1	15 4.5	9.6	282.379	−1.056	5.0
11	19 48 27	54 22	−23 16.0	1 50.8	55 49.4	42.1	15 14.1	11.5	294.768	−2.122	6.0
12	20 42 49	53 59	−21 25.2	2 59.7	56 31.5	48.4	15 25.6	13.2	307.444	−3.110	7.0
13	21 36 48	53 25	−18 25.5	4 2.3	57 19.9	52.8	15 38.8	14.4	320.475	−3.966	8.0
14	22 30 13	52 59	−14 23.2	4 55.2	58 12.7	54.3	15 53.2	14.8	333.922	−4.634	9.0
15	23 23 12	53 3	− 9 28.0	5 34.7	59 7.0	51.5	16 8.0	14.0	347.822	−5.057	10.0
16	0 16 15	53 51	− 3 53.3	5 57.1	59 58.5	43.4	16 22.0	11.8	2.179	−5.183	11.0
17	1 10 6	55 28	+ 2 3.8	5 57.8	60 41.9	29.8	16 33.8	8.1	16.948	−4.975	12.0
18	2 5 34	57 47	+ 8 1.6	5 33.5	61 11.7	11.9	16 41.9	3.3	32.027	−4.422	13.0
19	3 3 21	60 24	+13 35.1	4 42.1	61 23.6	8.3	16 45.2	2.3	47.272	−3.551	14.0
20	4 3 45	62 38	+18 17.2	3 26.3	61 15.3	27.7	16 42.9	7.5	62.506	−2.427	15.0
21	5 6 23	63 37	+21 43.5	1 53.5	60 47.6	43.4	16 35.4	11.9	77.560	−1.145	16.0
22	6 10 0	62 49	+23 37.0	0 15.9	60 4.2	54.0	16 23.5	14.7	92.291	+0.191	17.0
23	7 12 49	60 16	+23 52.9	1 14.7	59 10.2	58.6	16 8.8	15.9	106.603	+1.479	18.0
24	8 13 5		+22 38.2		58 11.6		15 52.9		120.455	+2.639	19.0

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Okt. 14	19 50 30	144	−22 59.4	+ 3.4	56.5	18 18.8	2.22	14 14	1.9	22 27	2.7
15	20 48 12	144	−20 56.4	+ 6.8	57.4	19 12.4	2.24	14 56	1.6	23 35	3.0
16	21 45 51	144	−17 35.3	+ 9.9	58.4	20 6.0	2.22	15 30	1.3	— —	—
17	22 43 5	143	−13 3.6	+12.6	59.4	20 59.1	2.20	15 59	1.1	0 51	3.2
18	23 39 58	142	− 7 35.0	+14.6	60.3	21 51.9	2.20	16 24	1.0	2 11	3.4
19	0 36 57	143	− 1 29.0	+15.7	61.0	22 44.8	2.21	16 47	1.0	3 33	3.5
20	1 34 43	146	+ 4 49.9	+15.7	61.4	23 38.5	2.26	17 10	1.0	4 57	3.5
21	— — —	—	— —	—	—	— —	—	17 34	1.1	6 23	3.6
22	2 34 1	151	+10 53.2	+14.4	61.4	0 33.7	2.34	18 2	1.3	7 50	3.6
23	3 35 20	156	+16 11.3	+11.9	61.1	1 30.9	2.43	18 34	1.5	9 17	3.5
24	4 38 34	160	+20 17.5	+ 8.5	60.4	2 30.0	2.49	19 15	1.9	10 39	3.3
25	5 42 51	161	+22 52.4	+ 4.4	59.6	3 30.2	2.51	20 5	2.3	11 53	2.8
26	6 46 39	158	+23 48.1	+ 0.3	58.6	4 29.9	2.45	21 5	2.6	12 55	2.3
27	7 48 21	150	+23 8.4	− 3.5	57.7	5 27.5	2.34	22 11	2.8	13 44	1.8
28	8 46 44	141	+21 6.4	− 6.6	56.8	6 21.8	2.18	23 20	2.9	14 22	1.4
29	9 41 22	132	+17 59.2	− 8.9	56.0	7 12.3	2.03	— —	—	14 51	1.1
30	10 32 27	124	+14 4.0	−10.6	55.3	7 59.4	1.90	0 30	2.9	15 15	0.9
31	11 20 40	118	+ 9 36.2	−11.7	54.8	8 43.5	1.79	1 39	2.8	15 35	0.8
Nov. 1	12 6 50	113	+ 4 48.6	−12.2	54.4	9 25.6	1.72	2 46	2.8	15 53	0.7
2	12 51 52	112	− 0 7.4	−12.4	54.2	10 6.6	1.70	3 51	2.7	16 10	0.7
3	13 36 37	112	− 5 1.4	−12.1	54.0	10 47.3	1.70	4 57	2.7	16 27	0.7
4	14 21 54	115	− 9 43.4	−11.3	53.9	11 28.5	1.74	6 2	2.7	16 45	0.8
5	15 8 27	118	−14 2.9	−10.2	54.0	12 11.0	1.81	7 8	2.7	17 5	0.9
6	15 56 50	124	−17 48.8	− 8.6	54.1	12 55.3	1.89	8 14	2.7	17 29	1.1
7	16 47 25	129	−20 49.6	− 6.4	54.3	13 41.8	1.98	9 19	2.7	17 59	1.4
8	17 40 12	135	−22 54.0	− 3.9	54.6	14 30.6	2.07	10 22	2.5	18 36	1.7
9	18 34 54	139	−23 52.1	− 0.9	55.1	15 21.2	2.14	11 21	2.3	19 21	2.1
10	19 30 49	141	−23 36.6	+ 2.2	55.6	16 13.0	2.17	12 12	2.0	20 16	2.5
11	20 27 10	141	−22 4.4	+ 5.4	56.3	17 5.3	2.18	12 55	1.7	21 20	2.8
12	21 23 15	140	−19 17.0	+ 8.5	57.1	17 57.3	2.15	13 31	1.4	22 31	3.0
13	22 18 43	138	−15 20.4	+11.2	58.0	18 48.7	2.13	14 1	1.1	23 47	3.2
14	23 13 38	137	−10 24.8	+13.4	59.0	19 39.5	2.11	14 26	1.0	— —	—
15	0 8 30	138	− 4 43.9	+14.9	59.9	20 30.3	2.12	14 49	0.9	1 5	3.3
16	1 4 7	141	+ 1 24.1	+15.6	60.6	21 21.8	2.18	15 10	0.9	2 26	3.4
17	2 1 27	146	+ 7 36.1	+15.2	61.2	22 15.1	2.27	15 33	1.0	3 49	3.5
18	3 1 20	153	+13 24.4	+13.6	61.4	23 10.8	2.38	15 58	1.1	5 14	3.6
19	— — —	—	— —	—	—	— —	—	16 27	1.4	6 41	3.6
20	4 4 9	161	+18 18.9	+10.7	61.3	0 9.5	2.51	17 4	1.7	8 8	3.5
21	5 9 30	165	+21 51.3	+ 6.8	60.8	1 10.8	2.59	17 50	2.2	9 29	3.2
22	6 15 52	166	+23 42.6	+ 2.4	60.0	2 13.0	2.59	18 47	2.6	10 40	2.7
23	7 21 7	160	+23 47.8	− 1.9	59.0	3 14.2	2.49	19 54	2.9	11 38	2.1
24	8 23 17	150	+22 16.8	− 5.6	58.0	4 12.2	2.34	21 5	3.0	12 22	1.6

Tag	0ʰ Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1945	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Nov. 24	8 13 5	56 37	+22 38.2	2 30.1	58 11.6	57.9	15 52.9	15.8	120.455	+2.639	19.0
25	9 9 42	52 42	+20 8.1	3 27.1	57 13.7	53.4	15 37.1	14.6	133.849	+3.616	20.0
26	10 2 24	49 10	+16 41.0	4 7.0	56 20.3	45.9	15 22.5	12.5	146.824	+4.374	21.0
27	10 51 34	46 24	+12 34.0	4 32.3	55 34.4	37.1	15 10.0	10.1	159.436	+4.897	22.0
28	11 37 58	44 31	+ 8 1.7	4 45.9	54 57.3	27.7	14 59.9	7.5	171.758	+5.181	23.0
29	12 22 29	43 32	+ 3 15.8	4 49.7	54 29.6	18.4	14 52.4	5.0	183.860	+5.228	24.0
30	13 6 1	43 28	− 1 33.9	4 44.4	54 11.2	10.0	14 47.4	2.8	195.811	+5.046	25.0
Dez. 1	13 49 29	44 10	− 6 18.3	4 30.5	54 1.2	2.3	14 44.6	0.6	207.674	+4.649	26.0
2	14 33 39	45 33	−10 48.8	4 6.9	53 58.9	4.2	14 44.0	1.2	219.503	+4.055	27.0
3	15 19 12	47 29	−14 55.7	3 33.2	54 3.1	9.7	14 45.2	2.6	231.341	+3.285	28.0
4	16 6 41	49 40	−18 28.9	2 48.5	54 12.8	14.5	14 47.8	3.9	243.228	+2.369	29.0
5	16 56 21	51 46	−21 17.4	1 53.1	54 27.3	18.6	14 51.7	5.1	255.195	+1.341	0.2
6	17 48 7	53 26	−23 10.5	0 48.5	54 45.9	22.3	14 56.8	6.1	267.270	+0.243	1.2
7	18 41 33	54 19	−23 59.0	0 21.7	55 8.2	26.3	15 2.9	7.1	279.483	−0.879	2.2
8	19 35 52	54 21	−23 37.3	1 33.4	55 34.5	30.1	15 10.0	8.3	291.864	−1.977	3.2
9	20 30 13	53 39	−22 3.9	2 41.9	56 4.6	34.2	15 18.3	9.3	304.446	−2.998	4.2
10	21 23 52	52 37	−19 22.0	3 43.3	56 38.8	38.1	15 27.6	10.4	317.267	−3.890	5.2
11	22 16 29	51 41	−15 38.7	4 34.8	57 16.9	41.3	15 38.0	11.2	330.365	−4.599	6.2
12	23 8 10	51 12	−11 3.9	5 14.2	57 58.2	42.9	15 49.2	11.7	343.777	−5.078	7.2
13	23 59 22	51 28	− 5 49.7	5 39.5	58 41.1	42.0	16 0.9	11.4	357.527	−5.283	8.2
14	0 50 50	52 42	− 0 10.2	5 48.0	59 23.1	37.6	16 12.3	10.3	11.624	−5.180	9.2
15	1 43 32	54 51	+ 5 37.8	5 36.5	60 0.7	28.9	16 22.6	7.9	26.047	−4.752	10.2
16	2 38 23	57 43	+11 14.3	5 1.6	60 29.6	16.3	16 30.5	4.4	40.742	−4.010	11.2
17	3 36 6	60 47	+16 15.9	4 1.7	60 45.9	0.4	16 34.9	0.1	55.618	−2.989	12.2
18	4 36 53	63 13	+20 17.6	2 39.3	60 46.3	16.6	16 35.0	4.5	70.555	−1.761	13.2
19	5 40 6	64 4	+22 56.9	1 2.8	60 29.7	32.4	16 30.5	8.9	85.420	−0.418	14.2
20	6 44 10	62 52	+23 59.7	0 35.4	59 57.3	44.9	16 21.6	12.2	100.079	+0.934	15.2
21	7 47 2	59 51	+23 24.3	2 3.0	59 12.4	52.5	16 9.4	14.3	114.424	+2.199	16.2
22	8 46 53	55 54	+21 21.3	3 12.0	58 19.9	55.2	15 55.1	15.0	128.378	+3.297	17.2
23	9 42 47	51 53	+18 9.3	4 1.0	57 24.7	53.1	15 40.1	14.5	141.909	+4.174	18.2
24	10 34 40	48 25	+14 8.3	4 31.8	56 31.6	47.5	15 25.6	12.9	155.017	+4.803	19.2
25	11 23 5	45 50	+ 9 36.5	4 48.2	55 44.1	39.2	15 12.7	10.7	167.738	+5.175	20.2
26	12 8 55	44 15	+ 4 48.3	4 53.3	55 4.9	29.5	15 2.0	8.1	180.129	+5.294	21.2
27	12 53 10	43 37	− 0 5.0	4 48.9	54 35.4	19.3	14 53.9	5.2	192.260	+5.172	22.2
28	13 36 47	43 55	− 4 53.9	4 36.2	54 16.1	9.1	14 48.7	2.5	204.210	+4.828	23.2
29	14 20 42	45 2	− 9 30.1	4 14.9	54 7.0	0.4	14 46.2	0.1	216.057	+4.280	24.2
30	15 5 44	46 49	−13 45.0	3 44.4	54 7.4	8.7	14 46.3	2.4	227.876	+3.553	25.2
31	15 52 33	49 4	−17 29.4	3 3.2	54 16.1	15.6	14 48.7	4.2	239.734	+2.670	26.2
32	16 41 37		−20 32.6		54 31.7		14 52.9		251.689	+1.665	27.2

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1945	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 24	8 23 17	150	+22 16.8	− 5.6	58.0	4 12.2	2.34	21 5	3.0	12 22	1.6
25	9 21 14	139	+19 28.2	− 8.3	57.0	5 6.1	2.15	22 16	3.0	12 55	1.2
26	10 14 51	129	+15 43.0	−10.3	56.1	5 55.7	1.98	23 27	2.9	13 21	1.0
27	11 4 45	121	+11 20.1	−11.5	55.4	6 41.5	1.84	— —	—	13 42	0.8
28	11 51 52	115	+ 6 34.4	−12.2	54.8	7 24.5	1.75	0 35	2.8	14 0	0.7
29	12 37 14	112	+ 1 38.0	−12.4	54.4	8 5.9	1.70	1 42	2.7	14 17	0.7
30	13 21 53	112	− 3 18.9	−12.2	54.1	8 46.4	1.69	2 47	2.7	14 34	0.7
Dez. 1	14 6 45	113	− 8 7.0	−11.7	54.0	9 27.3	1.72	3 53	2.7	14 52	0.8
2	14 52 43	117	−12 36.7	−10.7	54.0	10 9.2	1.78	4 58	2.7	15 11	0.9
3	15 40 28	122	−16 37.2	− 9.3	54.1	10 52.9	1.87	6 4	2.8	15 34	1.0
4	16 30 31	128	−19 57.0	− 7.4	54.3	11 38.8	1.97	7 11	2.7	16 0	1.3
5	17 22 58	134	−22 23.6	− 4.8	54.6	12 27.2	2.06	8 15	2.6	16 35	1.6
6	18 17 34	139	−23 45.8	− 1.9	55.0	13 17.7	2.14	9 16	2.4	17 18	2.0
7	19 13 33	141	−23 54.9	+ 1.2	55.4	14 9.6	2.18	10 10	2.1	18 10	2.4
8	20 9 57	141	−22 47.1	+ 4.4	55.9	15 2.0	2.18	10 56	1.7	19 12	2.7
9	21 5 51	139	−20 24.0	+ 7.5	56.4	15 53.8	2.14	11 34	1.4	20 20	2.9
10	22 0 41	136	−16 52.2	+10.1	57.1	16 44.5	2.09	12 5	1.2	21 33	3.1
11	22 54 23	133	−12 22.0	+12.3	57.8	17 34.1	2.05	12 31	1.0	22 48	3.2
12	23 47 23	132	− 7 6.1	+13.9	58.5	18 23.1	2.03	12 53	0.9	— —	—
13	0 40 29	134	− 1 19.4	+14.9	59.2	19 12.1	2.06	13 14	0.9	0 6	3.3
14	1 34 43	138	+ 4 40.5	+15.0	59.9	20 2.2	2.13	13 35	0.9	1 24	3.3
15	2 31 10	145	+10 32.4	+14.2	60.4	20 54.6	2.24	13 58	1.0	2 45	3.4
16	3 30 45	153	+15 50.8	+12.2	60.8	21 50.1	2.39	14 23	1.2	4 9	3.5
17	4 33 49	162	+20 7.5	+ 9.0	60.8	22 49.1	2.52	14 55	1.5	5 34	3.5
18	5 39 42	167	+22 56.2	+ 4.9	60.5	23 50.8	2.61	15 35	1.9	6 58	3.4
19	— — —	—	— —	—	—	— —	—	16 27	2.4	8 15	3.0
20	6 46 32	166	+24 0.1	+ 0.4	59.9	0 53.5	2.60	17 30	2.8	9 21	2.5
21	7 51 56	160	+23 17.5	− 3.8	59.1	1 54.8	2.49	18 41	3.0	10 13	1.9
22	8 53 48	149	+21 1.6	− 7.3	58.2	2 52.6	2.32	19 56	3.1	10 52	1.4
23	9 51 11	138	+17 34.3	− 9.8	57.3	3 45.9	2.13	21 9	3.0	11 22	1.1
24	10 44 8	128	+13 18.4	−11.4	56.4	4 34.8	1.96	22 20	2.9	11 46	0.9
25	11 33 27	120	+ 8 33.4	−12.3	55.6	5 20.0	1.82	23 29	2.8	12 6	0.8
26	12 20 10	115	+ 3 34.5	−12.6	54.9	6 2.7	1.74	— —	—	12 24	0.7
27	13 5 25	112	− 1 26.8	−12.5	54.5	6 43.9	1.70	0 35	2.8	12 41	0.7
28	13 50 17	112	− 6 20.9	−12.0	54.2	7 24.7	1.71	1 41	2.7	12 58	0.7
29	14 35 44	115	−10 58.9	−11.1	54.1	8 6.1	1.75	2 46	2.7	13 16	0.8
30	15 22 42	120	−15 11.5	− 9.8	54.2	8 49.0	1.83	3 52	2.8	13 37	1.0
31	16 11 50	126	−18 48.0	− 8.1	54.4	9 34.0	1.93	4 58	2.8	14 3	1.2
32	17 3 33	133	−21 36.3	− 5.8	54.7	10 21.7	2.04	6 4	2.7	14 34	1.5

Mond 1945

Phasen des Mondes

1945		Welt-Zeit h m		1945		Welt-Zeit h m	
Jan.	6	12 47	Letztes Viertel	Juli	2	18 13	Letztes Viertel
	14	5 6	Neumond		9	13 35	Neumond
	20	23 48	Erstes Viertel		17	7 1	Erstes Viertel
	28	6 41	Vollmond		25	2 25	Vollmond
Febr.	5	9 55	Letztes Viertel		31	22 30	Letztes Viertel
	12	17 33	Neumond	Aug.	8	0 32	Neumond
	19	8 38	Erstes Viertel		16	0 27	Erstes Viertel
	27	0 7	Vollmond		23	12 3	Vollmond
März	7	4 30	Letztes Viertel		30	3 44	Letztes Viertel
	14	3 51	Neumond	Sept.	6	13 43	Neumond
	20	19 11	Erstes Viertel		14	17 38	Erstes Viertel
	28	17 44	Vollmond		21	20 46	Vollmond
April	5	19 18	Letztes Viertel		28	11 24	Letztes Viertel
	12	12 29	Neumond	Okt.	6	5 22	Neumond
	19	7 46	Erstes Viertel		14	9 38	Erstes Viertel
	27	10 33	Vollmond		21	5 32	Vollmond
Mai	5	6 2	Letztes Viertel		27	22 30	Letztes Viertel
	11	20 21	Neumond	Nov.	4	23 11	Neumond
	18	22 12	Erstes Viertel		12	23 34	Erstes Viertel
	27	1 49	Vollmond		19	15 13	Vollmond
Juni	3	13 15	Letztes Viertel		26	13 28	Letztes Viertel
	10	4 26	Neumond	Dez.	4	18 6	Neumond
	17	14 5	Erstes Viertel		12	11 5	Erstes Viertel
	25	15 8	Vollmond		19	2 17	Vollmond
					26	8 0	Letztes Viertel

Mond in Erdnähe

1945		Welt-Zeit h
Jan.	17	17
Febr.	14	12
März	14	21
April	12	8
Mai	10	18
Juni	7	20
Juli	5	2
Juli	30	6
Aug.	26	4
Sept.	23	4
Okt.	21	14
Nov.	19	2
Dez.	17	13

Mond in Erdferne

1945		Welt-Zeit h
Jan.	5	20
Febr.	2	16
März	2	7
März	29	12
April	25	15
Mai	23	1
Juni	19	17
Juli	17	12
Aug.	14	6
Sept.	11	0
Okt.	8	13
Nov.	4	16
Dez.	1	20
Dez.	29	11

Tag		Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	17 30 56.66	1 24.49	−20 8 11.2	1 15.6	0.750 919	18 038	10 51.3
	1	17 29 32.17	0 42.36	20 9 26.8	3 13.0	0.768 957	19 005	10 46.3
	2	17 28 49.81	0 2.49	20 12 39.8	4 57.4	0.787 962	19 728	10 41.9
	3	17 28 47.32	0 34.69	20 17 37.2	6 27.4	0.807 690	20 234	10 38.2
	4	17 29 22.01	1 9.00	20 24 4.6	7 42.5	0.827 924	20 555	10 35.1
	5	17 30 31.01	1 40.43	20 31 47.1	8 43.2	0.848 479	20 715	10 32.6
	6	17 32 11.44	2 9.03	−20 40 30.3	9 29.6	0.869 194	20 741	10 30.5
	7	17 34 20.47	2 34.98	20 49 59.9	10 3.1	0.889 935	20 654	10 28.9
	8	17 36 55.45	2 58.42	21 0 3.0	10 24.2	0.910 589	20 474	10 27.7
	9	17 39 53.87	3 19.60	21 10 27.2	10 34.2	0.931 063	20 219	10 26.9
	10	17 43 13.47	3 38.70	21 21 1.4	10 34.2	0.951 282	19 902	10 26.5
	11	17 46 52.17	3 55.91	21 31 35.6	10 24.9	0.971 184	19 536	10 26.3
	12	17 50 48.08	4 11.45	−21 42 0.5	10 7.7	0.990 720	19 131	10 26.4
	13	17 54 59.53	4 25.46	21 52 8.2	9 43.1	1.009 851	18 697	10 26.7
	14	17 59 24.99	4 38.13	22 1 51.3	9 12.2	1.028 548	18 241	10 27.3
	15	18 4 3.12	4 49.59	22 11 3.5	8 35.4	1.046 789	17 767	10 28.1
	16	18 8 52.71	4 59.96	22 19 38.9	7 53.6	1.064 556	17 282	10 29.1
	17	18 13 52.67	5 9.37	22 27 32.5	7 7.4	1.081 838	16 789	10 30.2
	18	18 19 2.04	5 17.93	−22 34 39.9	6 17.0	1.098 627	16 292	10 31.5
	19	18 24 19.97	5 25.71	22 40 56.9	5 23.1	1.114 919	15 794	10 32.9
	20	18 29 45.68	5 32.79	22 46 20.0	4 26.0	1.130 713	15 295	10 34.4
	21	18 35 18.47	5 39.26	22 50 46.0	3 26.2	1.146 008	14 799	10 36.1
	22	18 40 57.73	5 45.17	22 54 12.2	2 23.8	1.160 807	14 306	10 37.8
	23	18 46 42.90	5 50.57	22 56 36.0	1 19.1	1.175 113	13 816	10 39.7
	24	18 52 33.47	5 55.52	−22 57 55.1	0 12.4	1.188 929	13 331	10 41.7
	25	18 58 28.99	6 0.07	22 58 7.5	0 56.1	1.202 260	12 850	10 43.7
	26	19 4 29.06	6 4.22	22 57 11.4	2 6.4	1.215 110	12 376	10 45.7
	27	19 10 33.28	6 8.05	22 55 5.0	3 17.9	1.227 486	11 905	10 47.9
	28	19 16 41.33	6 11.56	22 51 47.1	4 30.9	1.239 391	11 440	10 50.1
	29	19 22 52.89	6 14.80	22 47 16.2	5 45.0	1.250 831	10 980	10 52.4
	30	19 29 7.69	6 17.76	−22 41 31.2	7 0.4	1.261 811	10 522	10 54.7
	31	19 35 25.45	6 20.49	22 34 30.8	8 16.6	1.272 333	10 070	10 57.1
Febr.	1	19 41 45.94	6 23.01	22 26 14.2	9 33.8	1.282 403	9 621	10 59.5
	2	19 48 8.95	6 25.32	22 16 40.4	10 51.7	1.292 024	9 174	11 2.0
	3	19 54 34.27	6 27.46	22 5 48.7	12 10.5	1.301 198	8 731	11 4.5
	4	20 1 1.73	6 29.42	21 53 38.2	13 29.9	1.309 929	8 287	11 7.0
	5	20 7 31.15	6 31.25	−21 40 8.3	14 49.9	1.318 216	7 845	11 9.6
	6	20 14 2.40	6 32.93	21 25 18.4	16 10.5	1.326 061	7 403	11 12.2
	7	20 20 35.33	6 34.49	21 9 7.9	17 31.6	1.333 464	6 960	11 14.8
	8	20 27 9.82	6 35.94	20 51 36.3	18 53.1	1.340 424	6 514	11 17.5
	9	20 33 45.76	6 37.29	20 32 43.2	20 15.1	1.346 938	6 066	11 20.1
	10	20 40 23.05		−20 12 28.1		1.353 004		11 22.8

Merkur 1945

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	20 40 23.05	6 38.56	−20 12 28.1	21 37.4	1.353 004	5 613	11 22.8
	11	20 47 1.61	6 39.74	19 50 50.7	23 0.1	1.358 617	5 155	11 25.6
	12	20 53 41.35	6 40.86	19 27 50.6	24 23.0	1.363 772	4 690	11 28.3
	13	21 0 22.21	6 41.94	19 3 27.6	25 46.1	1.368 462	4 218	11 31.0
	14	21 7 4.15	6 42.95	18 37 41.5	27 9.5	1.372 680	3 736	11 33.8
	15	21 13 47.10	6 43.94	18 10 32.0	28 33.1	1.376 416	3 243	11 36.6
	16	21 20 31.04	6 44.90	−17 41 58.9	29 56.7	1.379 659	2 738	11 39.4
	17	21 27 15.94	6 45.84	17 12 2.2	31 20.4	1.382 397	2 218	11 42.2
	18	21 34 1.78	6 46.78	16 40 41.8	32 44.0	1.384 615	1 683	11 45.1
	19	21 40 48.56	6 47.69	16 7 57.8	34 7.7	1.386 298	1 128	11 47.9
	20	21 47 36.25	6 48.62	15 33 50.1	35 31.2	1.387 426	554	11 50.8
	21	21 54 24.87	6 49.55	14 58 18.9	36 54.4	1.387 980	−43	11 53.6
	22	22 1 14.42	6 50.49	−14 21 24.5	38 17.3	1.387 937	667	11 56.5
	23	22 8 4.91	6 51.42	13 43 7.2	39 39.8	1.387 270	1 317	11 59.5
	24	22 14 56.33	6 52.37	13 3 27.4	41 1.4	1.385 953	1 999	12 2.4
	25	22 21 48.70	6 53.30	12 22 26.0	42 22.3	1.383 954	2 714	12 5.3
	26	22 28 42.00	6 54.23	11 40 3.7	43 42.2	1.381 240	3 465	12 8.3
	27	22 35 36.23	6 55.11	10 56 21.5	45 0.7	1.377 775	4 254	12 11.3
	28	22 42 31.34	6 55.96	−10 11 20.8	46 17.4	1.373 521	5 085	12 14.3
März	1	22 49 27.30	6 56.73	9 25 3.4	47 32.1	1.368 436	5 960	12 17.3
	2	22 56 24.03	6 57.38	8 37 31.3	48 44.3	1.362 476	6 880	12 20.3
	3	23 3 21.41	6 57.91	7 48 47.0	49 53.3	1.355 596	7 847	12 23.3
	4	23 10 19.32	6 58.22	6 58 53.7	50 58.7	1.347 749	8 862	12 26.3
	5	23 17 17.54	6 58.30	6 7 55.0	51 59.6	1.338 887	9 925	12 29.4
	6	23 24 15.84	6 58.05	− 5 15 55.4	52 55.3	1.328 962	11 034	12 32.4
	7	23 31 13.89	6 57.41	4 23 0.1	53 44.8	1.317 928	12 186	12 35.4
	8	23 38 11.30	6 56.27	3 29 15.3	54 27.3	1.305 742	13 378	12 38.5
	9	23 45 7.57	6 54.55	2 34 48.0	55 1.3	1.292 364	14 603	12 41.4
	10	23 52 2.12	6 52.12	1 39 46.7	55 26.0	1.277 761	15 852	12 44.4
	11	23 58 54.24	6 48.89	− 0 44 20.7	55 40.1	1.261 909	17 114	12 47.3
	12	0 5 43.13	6 44.70	+ 0 11 19.4	55 42.4	1.244 795	18 375	12 50.1
	13	0 12 27.83	6 39.45	1 7 1.8	55 31.7	1.226 420	19 620	12 52.9
	14	0 19 7.28	6 33.00	2 2 33.5	55 6.9	1.206 800	20 830	12 55.5
	15	0 25 40.28	6 25.25	2 57 40.4	54 27.2	1.185 970	21 988	12 58.1
	16	0 32 5.53	6 16.09	3 52 7.6	53 31.9	1.163 982	23 072	13 0.5
	17	0 38 21.62	6 5.44	4 45 39.5	52 20.5	1.140 910	24 061	13 2.7
	18	0 44 27.06	5 53.24	+ 5 38 0.0	50 52.8	1.116 849	24 937	13 4.8
	19	0 50 20.30	5 39.48	6 28 52.8	49 9.1	1.091 912	25 685	13 6.6
	20	0 55 59.78	5 24.13	7 18 1.9	47 9.7	1.066 227	26 288	13 8.2
	21	1 1 23.91	5 7.24	8 5 11.6	44 55.1	1.039 939	26 736	13 9.5
	22	1 6 31.15	4 48.85	8 50 6.7	42 26.6	1.013 203	27 024	13 10.5
	23	1 11 20.00		+ 9 32 33.3		0.986 179		13 11.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
März 23	1 11 20.00	4 29.04	+ 9 32 33.3	39 44.8	0.986 179	27 146	13 11.2
24	1 15 49.04	4 7.92	10 12 18.1	36 50.9	0.959 033	27 106	13 11.5
25	1 19 56.96	3 45.61	10 49 9.0	33 46.2	0.931 927	26 904	13 11.5
26	1 23 42.57	3 22.24	11 22 55.2	30 31.6	0.905 023	26 548	13 11.2
27	1 27 4.81	2 57.95	11 53 26.8	27 8.1	0.878 475	26 047	13 10.4
28	1 30 2.76	2 32.92	12 20 34.9	23 37.1	0.852 428	25 409	13 9.1
29	1 32 35.68	2 7.34	+12 44 12.0	19 59.3	0.827 019	24 644	13 7.5
30	1 34 43.02	1 41.41	13 4 11.3	16 15.9	0.802 375	23 764	13 5.5
31	1 36 24.43	1 15.36	13 20 27.2	12 27.8	0.778 611	22 777	13 3.0
April 1	1 37 39.79	0 49.42	13 32 55.0	8 36.3	0.755 834	21 696	13 0.1
2	1 38 29.21	0 23.85	13 41 31.3	4 43.0	0.734 138	20 528	12 56.7
3	1 38 53.06	0 1.01	13 46 14.3	0 49.2	0.713 610	19 285	12 53.0
4	1 38 52.05	0 24.88	+13 47 3.5	3 2.8	0.694 325	17 975	12 48.8
5	1 38 27.17	0 47.46	13 44 0.7	6 51.0	0.676 350	16 608	12 44.3
6	1 37 39.71	1 8.39	13 37 9.7	10 32.8	0.659 742	15 194	12 39.4
7	1 36 31.32	1 27.36	13 26 36.9	14 5.4	0.644 548	13 739	12 34.1
8	1 35 3.96	1 44.06	13 12 31.5	17 25.2	0.630 809	12 257	12 28.6
9	1 33 19.90	1 58.23	12 55 6.3	20 29.5	0.618 552	10 756	12 22.8
10	1 31 21.67	2 9.66	+12 34 36.8	23 15.2	0.607 796	9 244	12 16.8
11	1 29 12.01	2 18.15	12 11 21.6	25 39.0	0.598 552	7 734	12 10.7
12	1 26 53.86	2 23.65	11 45 42.6	27 38.4	0.590 818	6 236	12 4.4
13	1 24 30.21	2 26.11	11 18 4.2	29 11.2	0.584 582	4 757	11 58.1
14	1 22 4.10	2 25.60	10 48 53.0	30 16.5	0.579 825	3 310	11 51.7
15	1 19 38.50	2 22.22	10 18 36.5	30 53.2	0.576 515	1 900	11 45.4
16	1 17 16.28	2 16.18	+ 9 47 43.3	31 1.8	0.574 615	537	11 39.2
17	1 15 0.10	2 7.72	9 16 41.5	30 43.1	0.574 078	773	11 33.0
18	1 12 52.38	1 57.11	8 45 58.4	29 58.7	0.574 851	2 024	11 27.1
19	1 10 55.27	1 44.68	8 15 59.7	28 51.0	0.576 875	3 212	11 21.3
20	1 9 10.59	1 30.71	7 47 8.7	27 22.4	0.580 087	4 335	11 15.7
21	1 7 39.88	1 15.53	7 19 46.3	25 35.9	0.584 422	5 392	11 10.4
22	1 6 24.35	0 59.44	+ 6 54 10.4	23 34.6	0.589 814	6 382	11 5.4
23	1 5 24.91	0 42.70	6 30 35.8	20 21.1	0.596 196	7 305	11 0.6
24	1 4 42.21	0 25.57	6 9 14.7	18 58.7	0.603 501	8 163	10 56.1
25	1 4 16.64	0 8.27	5 50 16.0	16 29.6	0.611 664	8 959	10 51.8
26	1 4 8.37	0 9.03	5 33 46.4	13 56.1	0.620 623	9 697	10 47.9
27	1 4 17.40	0 26.18	5 19 50.3	11 20.5	0.630 320	10 379	10 44.2
28	1 4 43.58	0 43.06	+ 5 8 29.8	8 44.4	0.640 699	11 007	10 40.9
29	1 5 26.64	0 59.56	4 59 45.4	6 9.3	0.651 706	11 587	10 37.8
30	1 6 26.20	1 15.63	4 53 36.1	3 36.2	0.663 293	12 123	10 34.9
Mai 1	1 7 41.83	1 31.21	4 49 59.9	1 6.2	0.675 416	12 617	10 32.4
2	1 9 13.04	1 46.28	4 48 53.7	1 20.0	0.688 033	13 073	10 30.1
3	1 10 59.32		+ 4 50 13.7		0.701 106		10 28.0

Merkur 1945

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Mai	3	1 10 59.32	2 0.84	+ 4 50 13.7	3 42.0	0.701 106	13 495	10 28.0
	4	1 13 0.16	2 14.87	4 53 55.7	5 59.3	0.714 601	13 885	10 26.2
	5	1 15 15.03	2 28.38	4 59 55.0	8 11.6	0.728 486	14 246	10 24.6
	6	1 17 43.41	2 41.40	5 8 6.6	10 18.9	0.742 732	14 582	10 23.2
	7	1 20 24.81	2 53.95	5 18 25.5	12 20.9	0.757 314	14 893	10 22.1
	8	1 23 18.76	3 6.06	5 30 46.4	14 17.7	0.772 207	15 184	10 21.1
	9	1 26 24.82	3 17.76	+ 5 45 4.1	16 9.3	0.787 391	15 454	10 20.4
	10	1 29 42.58	3 29.09	6 1 13.4	17 55.9	0.802 845	15 707	10 19.8
	11	1 33 11.67	3 40.09	6 19 9.3	19 37.3	0.818 552	15 942	10 19.4
	12	1 36 51.76	3 50.81	6 38 46.6	21 13.9	0.834 494	16 162	10 19.2
	13	1 40 42.57	4 1.26	7 0 0.5	22 45.6	0.850 656	16 367	10 19.2
	14	1 44 43.83	4 11.52	7 22 46.1	24 12.6	0.867 023	16 557	10 19.3
	15	1 48 55.35	4 21.60	+ 7 46 58.7	25 35.0	0.883 580	16 732	10 19.7
	16	1 53 16.95	4 31.57	8 12 33.7	26 52.8	0.900 312	16 894	10 20.2
	17	1 57 48.52	4 41.45	8 39 26.5	28 5.9	0.917 206	17 039	10 20.8
	18	2 2 29.97	4 51.28	9 7 32.4	29 14.9	0.934 245	17 169	10 21.6
	19	2 7 21.25	5 1.10	9 36 47.3	30 19.2	0.951 414	17 281	10 22.6
	20	2 12 22.35	5 10.96	10 7 6.5	31 19.2	0.968 695	17 375	10 23.8
	21	2 17 33.31	5 20.88	+10 38 25.7	32 14.6	0.986 070	17 447	10 25.1
	22	2 22 54.19	5 30.89	11 10 40.3	33 5.3	1.003 517	17 497	10 26.5
	23	2 28 25.08	5 41.03	11 43 45.6	33 51.4	1.021 014	17 521	10 28.2
	24	2 34 6.11	5 51.35	12 17 37.0	34 32.6	1.038 535	17 517	10 30.0
	25	2 39 57.46	6 1.82	12 52 9.6	35 8.7	1.056 052	17 479	10 32.0
	26	2 45 59.28	6 12.51	13 27 18.3	35 39.4	1.073 531	17 404	10 34.2
	27	2 52 11.79	6 23.43	+14 2 57.7	36 4.4	1.090 935	17 290	10 36.5
	28	2 58 35.22	6 34.57	14 39 2.1	36 23.5	1.108 225	17 128	10 39.1
	29	3 5 9.79	6 45.95	15 15 25.6	36 36.0	1.125 353	16 916	10 41.8
	30	3 11 55.74	6 57.56	15 52 1.6	36 41.6	1.142 269	16 645	10 44.7
	31	3 18 53.30	7 9.40	16 28 43.2	36 39.8	1.158 914	16 311	10 47.8
Juni	1	3 26 2.70	7 21.42	17 5 23.0	36 29.8	1.175 225	15 908	10 51.1
	2	3 33 24.12	7 33.59	+17 41 52.8	36 11.2	1.191 133	15 427	10 54.6
	3	3 40 57.71	7 45.84	18 18 4.0	35 43.1	1.206 560	14 865	10 58.3
	4	3 48 43.55	7 58.13	18 53 47.1	35 5.2	1.221 425	14 216	11 2.3
	5	3 56 41.68	8 10.31	19 28 52.3	34 16.5	1.235 641	13 473	11 6.4
	6	4 4 51.99	8 22.30	20 3 8.8	33 16.6	1.249 114	12 636	11 10.8
	7	4 13 14.29	8 33.97	20 36 25.4	32 5.0	1.261 750	11 701	11 15.3
	8	4 21 48.26	8 45.14	+21 8 30.4	30 41.2	1.273 451	10 670	11 20.0
	9	4 30 33.40	8 55.66	21 39 11.6	29 5.2	1.284 121	9 546	11 24.9
	10	4 39 29.06	9 5.36	22 8 16.8	27 17.1	1.293 667	8 337	11 30.0
	11	4 48 34.42	9 14.05	22 35 33.9	25 17.1	1.302 004	7 050	11 35.3
	12	4 57 48.47	9 21.58	23 0 51.0	23 6.0	1.309 054	5 698	11 40.6
	13	5 7 10.05		+23 23 57.0		1.314 752		11 46.1

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Juni	13	5 7 10.05	9 27.79	+23 23 57.0	20 44.6	1.314 752	4 297	11 46.1
	14	5 16 37.84	9 32.54	23 44 41.6	18 14.3	1.319 049	2 863	11 51.7
	15	5 26 10.38	9 35.75	24 2 55.9	15 36.5	1.321 912	1 416	11 57.3
	16	5 35 46.13	9 37.36	24 18 32.4	12 52.9	1.323 328	27	12 3.0
	17	5 45 23.49	9 37.35	24 31 25.3	10 5.4	1.323 301	1 447	12 8.7
	18	5 55 0.84	9 35.75	24 41 30.7	7 15.9	1.321 854	2 825	12 14.4
	19	6 4 36.59	9 32.61	+24 48 46.6	4 26.0	1.319 029	4 148	12 20.1
	20	6 14 9.20	9 28.04	24 53 12.6	1 37.7	1.314 881	5 405	12 25.7
	21	6 23 37.24	9 22.14	24 54 50.3	1 7.6	1.309 476	6 582	12 31.2
	22	6 32 59.38	9 15.07	24 53 42.7	3 48.5	1.302 894	7 677	12 36.6
	23	6 42 14.45	9 6.95	24 49 54.2	6 23.9	1.295 217	8 683	12 41.7
	24	6 51 21.40	8 57.93	24 43 30.3	8 52.9	1.286 534	9 600	12 46.9
	25	7 0 19.33	8 48.18	+24 34 37.4	11 14.7	1.276 934	10 429	12 51.9
	26	7 9 7.51	8 37.81	24 23 22.7	13 29.0	1.266 505	11 172	12 56.7
	27	7 17 45.32	8 26.95	24 9 53.7	15 35.4	1.255 333	11 834	13 1.3
	28	7 26 12.27	8 15.73	23 54 18.3	17 33.6	1.243 499	12 418	13 5.7
	29	7 34 28.00	8 4.22	23 36 44.7	19 23.9	1.231 081	12 931	13 9.9
	30	7 42 32.22	7 52.54	23 17 20.8	21 6.1	1.218 150	13 377	13 13.9
Juli	1	7 50 24.76	7 40.73	+22 56 14.7	22 40.5	1.204 773	13 764	13 17.8
	2	7 58 5.49	7 28.87	22 33 34.2	24 7.1	1.191 009	14 096	13 21.4
	3	8 5 34.36	7 16.99	22 9 27.1	25 26.2	1.176 913	14 379	13 24.9
	4	8 12 51.35	7 5.15	21 44 0.9	26 38.2	1.162 534	14 617	13 28.1
	5	8 19 56.50	6 53.34	21 17 22.7	27 43.2	1.147 917	14 817	13 31.1
	6	8 26 49.84	6 41.62	20 49 39.5	28 41.5	1.133 100	14 982	13 34.0
	7	8 33 31.46	6 29.96	+20 20 58.0	29 33.4	1.118 118	15 115	13 36.6
	8	8 40 1.42	6 18.41	19 51 24.6	30 18.9	1.103 003	15 221	13 39.1
	9	8 46 19.83	6 6.92	19 21 5.7	30 58.5	1.087 782	15 304	13 41.3
	10	8 52 26.75	5 55.51	18 50 7.2	31 32.3	1.072 478	15 364	13 43.4
	11	8 58 22.26	5 44.18	18 18 34.9	32 0.4	1.057 114	15 405	13 45.3
	12	9 4 6.44	5 32.89	17 46 34.5	32 23.1	1.041 709	15 429	13 47.0
	13	9 9 39.33	5 21.65	+17 14 11.4	32 40.3	1.026 280	15 437	13 48.5
	14	9 15 0.98	5 10.41	16 41 31.1	32 52.4	1.010 843	15 432	13 49.8
	15	9 20 11.39	4 59.19	16 8 38.7	32 59.2	0.995 411	15 413	13 50.9
	16	9 25 10.58	4 47.92	15 35 39.5	33 1.0	0.979 998	15 383	13 51.8
	17	9 29 58.50	4 36.60	15 2 38.5	32 57.7	0.964 615	15 341	13 52.6
	18	9 34 35.10	4 25.20	14 29 40.8	32 49.2	0.949 274	15 288	13 53.1
	19	9 39 0.30	4 13.68	+13 56 51.6	32 35.6	0.933 986	15 224	13 53.5
	20	9 43 13.98	4 2.01	13 24 16.0	32 16.9	0.918 762	15 150	13 53.7
	21	9 47 15.99	3 50.17	12 51 59.1	31 52.8	0.903 612	15 064	13 53.6
	22	9 51 6.16	3 38.10	12 20 6.3	31 23.4	0.888 548	14 966	13 53.4
	23	9 54 44.26	3 25.77	11 48 42.9	30 48.3	0.873 582	14 856	13 53.0
	24	9 58 10.03		+11 17 54.6		0.858 726		13 52.4

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Juli	24	9 58 10.03	3 13.17	+11 17 54.6	30 7.7	0.858 726	14 731	13 52.4
	25	10 1 23.20	3 0.23	10 47 46.9	29 20.9	0.843 995	14 592	13 51.5
	26	10 4 23.43	2 46.93	10 18 26.0	28 28.1	0.829 403	14 435	13 50.5
	27	10 7 10.36	2 33.23	9 49 57.9	27 28.8	0.814 968	14 261	13 49.2
	28	10 9 43.59	2 19.09	9 22 29.1	26 22.9	0.800 707	14 066	13 47.7
	29	10 12 2.68	2 4.48	8 56 6.2	25 9.8	0.786 641	13 847	13 45.9
	30	10 14 7.16	1 49.39	+ 8 30 56.4	23 49.5	0.772 794	13 602	13 43.9
	31	10 15 56.55	1 33.78	8 7 6.9	22 21.5	0.759 192	13 329	13 41.6
Aug.	1	10 17 30.33	1 17.61	7 44 45.4	20 45.4	0.745 863	13 023	13 39.1
	2	10 18 47.94	1 0.92	7 24 0.0	19 1.1	0.732 840	12 681	13 36.3
	3	10 19 48.86	0 43.69	7 4 58.9	17 8.1	0.720 159	12 297	13 33.2
	4	10 20 32.55	0 25.96	6 47 50.8	15 6.4	0.707 862	11 869	13 29.8
	5	10 20 58.51	0 7.77	+ 6 32 44.4	12 55.9	0.695 993	11 390	13 26.2
	6	10 21 6.28	0 10.79	6 19 48.5	10 36.4	0.684 603	10 855	13 22.2
	7	10 20 55.49	0 29.66	6 9 12.1	8 8.5	0.673 748	10 260	13 17.9
	8	10 20 25.83	0 48.66	6 1 3.6	5 32.2	0.663 488	9 597	13 13.3
	9	10 19 37.17	1 7.63	5 55 31.4	2 48.6	0.653 891	8 862	13 8.4
	10	10 18 29.54	1 26.35	5 52 42.8	0 1.4	0.645 029	8 051	13 3.2
	11	10 17 3.19	1 44.53	+ 5 52 44.2	2 56.3	0.636 978	7 155	12 57.7
	12	10 15 18.66	2 1.90	5 55 40.5	5 54.1	0.629 823	6 173	12 51.8
	13	10 13 16.76	2 18.08	6 1 34.6	8 52.6	0.623 650	5 102	12 45.7
	14	10 10 58.68	2 32.70	6 10 27.2	11 49.2	0.618 548	3 939	12 39.4
	15	10 8 25.98	2 45.34	6 22 16.4	14 40.4	0.614 609	2 682	12 32.8
	16	10 5 40.64	2 55.62	6 36 56.8	17 23.0	0.611 927	1 335	12 26.0
	17	10 2 45.02	3 3.09	+ 6 54 19.8	19 53.4	0.610 592	100	12 19.2
	18	9 59 41.93	3 7.41	7 14 13.2	22 7.8	0.610 692	1 616	12 12.2
	19	9 56 34.52	3 8.27	7 36 21.0	24 3.1	0.612 308	3 206	12 5.1
	20	9 53 26.25	3 5.42	8 0 24.1	25 35.9	0.615 514	4 861	11 58.1
	21	9 50 20.83	2 58.72	8 26 0.0	26 44.0	0.620 375	6 567	11 51.1
	22	9 47 22.11	2 48.13	8 52 44.0	27 25.5	0.626 942	8 310	11 44.3
	23	9 44 33.98	2 33.74	+ 9 20 9.5	27 39.4	0.635 252	10 076	11 37.7
	24	9 42 0.24	2 15.70	9 47 48.9	27 25.6	0.645 328	11 847	11 31.4
	25	9 39 44.54	1 54.32	10 15 14.5	26 44.2	0.657 175	13 606	11 25.3
	26	9 37 50.22	1 29.93	10 41 58.7	25 36.8	0.670 781	15 337	11 19.7
	27	9 36 20.29	1 2.98	11 7 35.5	24 4.9	0.686 118	17 022	11 14.5
	28	9 35 17.31	0 33.92	11 31 40.4	22 10.4	0.703 140	18 642	11 9.8
	29	9 34 43.39	0 3.24	+11 53 50.8	19 55.7	0.721 782	20 183	11 5.5
	30	9 34 40.15	0 28.57	12 13 46.5	17 22.9	0.741 965	21 627	11 1.7
	31	9 35 8.72	1 1.03	12 31 9.4	14 34.5	0.763 592	22 957	10 58.5
Sept.	1	9 36 9.75	1 33.67	12 45 43.9	11 32.7	0.786 549	24 161	10 55.8
	2	9 37 43.42	2 6.05	12 57 16.6	8 19.9	0.810 710	25 221	10 53.7
	3	9 39 49.47		+13 5 36.5		0.835 931		10 52.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	9 39 49.47	2 37.77	+13 5 36.5	4 58.2	0.835 931	26 125	10 52.1
4	9 42 27.24	3 8.46	13 10 34.7	1 29.7	0.862 056	26 861	10 51.0
5	9 45 35.70	3 37.76	13 12 4.4	2 3.1	0.888 917	27 418	10 50.5
6	9 49 13.46	4 5.42	13 10 1.3	5 38.4	0.916 335	27 790	10 50.4
7	9 53 18.88	4 31.16	13 4 22.9	9 13.6	0.944 125	27 972	10 50.7
8	9 57 50.04	4 54.79	12 55 9.3	12 46.6	0.972 097	27 961	10 51.5
9	10 2 44.83	5 16.14	+12 42 22.7	16 15.2	1.000 058	27 764	10 52.5
10	10 8 0.97	5 35.15	12 26 7.5	19 37.4	1.027 822	27 387	10 54.1
11	10 13 36.12	5 51.75	12 6 30.1	22 50.9	1.055 209	26 840	10 55.9
12	10 19 27.87	6 5.99	11 43 39.2	25 54.5	1.082 049	26 141	10 57.9
13	10 25 33.86	6 17.91	11 17 44.7	28 46.2	1.108 190	25 306	11 0.2
14	10 31 51.77	6 27.64	10 48 58.5	31 25.4	1.133 496	24 357	11 2.6
15	10 38 19.41	6 35.33	+10 17 33.1	33 51.0	1.157 853	23 315	11 5.2
16	10 44 54.74	6 41.14	9 43 42.1	36 2.7	1.181 168	22 200	11 7.9
17	10 51 35.88	6 45.30	9 7 39.4	38 0.5	1.203 368	21 033	11 10.7
18	10 58 21.18	6 47.98	8 29 38.9	39 44.4	1.224 401	19 835	11 13.5
19	11 5 9.16	6 49.41	7 49 54.5	41 15.0	1.244 236	18 621	11 16.4
20	11 11 58.57	6 49.76	7 8 39.5	42 32.9	1.262 857	17 405	11 19.3
21	11 18 48.33	6 49.23	+ 6 26 6.6	43 38.8	1.280 262	16 201	11 22.1
22	11 25 37.56	6 47.99	5 42 27.8	44 33.6	1.296 463	15 018	11 25.0
23	11 32 25.55	6 46.18	4 57 54.2	45 18.2	1.311 481	13 862	11 27.9
24	11 39 11.73	6 43.95	4 12 36.0	45 53.4	1.325 343	12 741	11 30.7
25	11 45 55.68	6 41.39	3 26 42.6	46 20.2	1.338 084	11 656	11 33.5
26	11 52 37.07	6 38.61	2 40 22.4	46 39.2	1.349 740	10 612	11 36.2
27	11 59 15.68	6 35.69	+ 1 53 43.2	46 51.3	1.360 352	9 609	11 38.9
28	12 5 51.37	6 32.70	1 6 51.9	46 57.3	1.369 961	8 645	11 41.5
29	12 12 24.07	6 29.69	+ 0 19 54.6	46 57.7	1.378 606	7 722	11 44.1
30	12 18 53.76	6 26.71	− 0 27 3.1	46 53.2	1.386 328	6 839	11 46.6
Okt. 1	12 25 20.47	6 23.80	1 13 56.3	46 44.3	1.393 167	5 992	11 49.1
2	12 31 44.27	6 20.99	2 0 40.6	46 31.3	1.399 159	5 182	11 51.5
3	12 38 5.26	6 18.27	− 2 47 11.9	46 14.9	1.404 341	4 404	11 54.0
4	12 44 23.53	6 15.71	3 33 26.8	45 55.4	1.408 745	3 659	11 56.3
5	12 50 39.24	6 13.28	4 19 22.2	45 32.9	1.412 404	2 942	11 58.6
6	12 56 52.52	6 11.01	5 4 55.1	45 7.8	1.415 346	2 253	12 0.8
7	13 3 3.53	6 8.89	5 50 2.9	44 40.6	1.417 599	1 588	12 3.1
8	13 9 12.42	6 6.94	6 34 43.5	44 11.1	1.419 187	945	12 5.3
9	13 15 19.36	6 5.15	− 7 18 54.6	43 39.6	1.420 132	324	12 7.4
10	13 21 24.51	6 3.52	8 2 34.2	43 6.5	1.420 456	278	12 9.5
11	13 27 28.03	6 2.04	8 45 40.7	42 31.6	1.420 178	865	12 11.7
12	13 33 30.07	6 0.71	9 28 12.3	41 55.3	1.419 313	1 435	12 13.7
13	13 39 30.78	5 59.55	10 10 7.6	41 17.3	1.417 878	1 993	12 15.8
14	13 45 30.33		−10 51 24.9		1.415 885		12 17.9

Merkur 1945

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Okt.	14	13 45 30.33	5 58.51	−10 51 24.9	40 38.1	1.415 885	2 539	12 17.9
	15	13 51 28.84	5 57.62	11 32 3.0	39 57.5	1.413 346	3 075	12 19.9
	16	13 57 26.46	5 56.85	12 12 0.5	39 15.7	1.410 271	3 602	12 21.9
	17	14 3 23.31	5 56.20	12 51 16.2	38 32.5	1.406 669	4 121	12 23.9
	18	14 9 19.51	5 55.66	13 29 48.7	37 48.2	1.402 548	4 634	12 25.9
	19	14 15 15.17	5 55.22	14 7 36.9	37 2.7	1.397 914	5 142	12 27.9
	20	14 21 10.39	5 54.88	−14 44 39.6	36 15.9	1.392 772	5 647	12 29.9
	21	14 27 5.27	5 54.62	15 20 55.5	35 28.0	1.387 125	6 149	12 31.8
	22	14 32 59.89	5 54.41	15 56 23.5	34 38.9	1.380 976	6 650	12 33.8
	23	14 38 54.30	5 54.27	16 31 2.4	33 48.5	1.374 326	7 150	12 35.8
	24	14 44 48.57	5 54.16	17 4 50.9	32 57.0	1.367 176	7 650	12 37.7
	25	14 50 42.73	5 54.07	17 37 47.9	32 4.2	1.359 526	8 152	12 39.7
	26	14 56 36.80	5 53.99	−18 9 52.1	31 10.0	1.351 374	8 658	12 41.6
	27	15 2 30.79	5 53.88	18 41 2.1	30 14.7	1.342 716	9 165	12 43.6
	28	15 8 24.67	5 53.73	19 11 16.8	29 17.8	1.333 551	9 677	12 45.6
	29	15 14 18.40	5 53.52	19 40 34.6	28 19.7	1.323 874	10 194	12 47.5
	30	15 20 11.92	5 53.22	20 8 54.3	27 20.0	1.313 680	10 715	12 49.4
	31	15 26 5.14	5 52.79	20 36 14.3	26 18.9	1.302 965	11 242	12 51.4
Nov.	1	15 31 57.93	5 52.21	−21 2 33.2	25 16.3	1.291 723	11 775	12 53.3
	2	15 37 50.14	5 51.43	21 27 49.5	24 12.0	1.279 948	12 315	12 55.3
	3	15 43 41.57	5 50.42	21 52 1.5	23 6.2	1.267 633	12 860	12 57.2
	4	15 49 31.99	5 49.14	22 15 7.7	21 58.7	1.254 773	13 413	12 59.1
	5	15 55 21.13	5 47.52	22 37 6.4	20 49.5	1.241 360	13 972	13 0.9
	6	16 1 8.65	5 45.53	22 57 55.9	19 38.5	1.227 388	14 537	13 2.8
	7	16 6 54.18	5 43.08	−23 17 34.4	18 25.9	1.212 851	15 108	13 4.6
	8	16 12 37.26	5 40.11	23 36 0.3	17 11.4	1.197 743	15 685	13 6.3
	9	16 18 17.37	5 36.54	23 53 11.7	15 55.1	1.182 058	16 265	13 8.0
	10	16 23 53.91	5 32.28	24 9 6.8	14 36.8	1.165 793	16 847	13 9.6
	11	16 29 26.19	5 27.23	24 23 43.6	13 16.8	1.148 946	17 430	13 11.2
	12	16 34 53.42	5 21.28	24 37 0.4	11 54.9	1.131 516	18 012	13 12.7
	13	16 40 14.70	5 14.30	−24 48 55.3	10 31.1	1.113 504	18 589	13 14.0
	14	16 45 29.00	5 6.13	24 59 26.4	9 5.3	1.094 915	19 157	13 15.2
	15	16 50 35.13	4 56.63	25 8 31.7	7 37.6	1.075 758	19 711	13 16.3
	16	16 55 31.76	4 45.63	25 16 9.3	6 8.1	1.056 047	20 246	13 17.2
	17	17 0 17.39	4 32.92	25 22 17.4	4 36.5	1.035 801	20 754	13 17.9
	18	17 4 50.31	4 18.29	25 26 53.9	3 3.1	1.015 047	21 226	13 18.4
	19	17 9 8.60	4 1.51	−25 29 57.0	1 27.7	0.993 821	21 652	13 18.6
	20	17 13 10.11	3 42.34	25 31 24.7	0 9.8	0.972 169	22 019	13 18.5
	21	17 16 52.45	3 20.53	25 31 14.9	1 49.3	0.950 150	22 312	13 18.1
	22	17 20 12.98	2 55.82	25 29 25.6	3 31.4	0.927 838	22 513	13 17.3
	23	17 23 8.80	2 27.98	25 25 54.2	5 15.7	0.905 325	22 602	13 16.0
	24	17 25 36.78		−25 20 38.5		0.882 723		13 14.2

Tag	Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
	0h Welt-Zeit						
1945	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	17 25 36.78	1 56.82	−25 20 38.5	7 2.9	0.882 723	22 556	13 14.2
25	17 27 33.60	1 22.22	25 13 35.6	8 53.3	0.860 167	22 346	13 11.9
26	17 28 55.82	0 44.18	25 4 42.3	10 46.8	0.837 821	21 946	13 9.0
27	17 29 40.00	0 2.86	24 53 55.5	12 43.9	0.815 875	21 324	13 5.5
28	17 29 42.86	0 41.34	24 41 11.6	14 44.7	0.794 551	20 448	13 1.2
29	17 29 1.52	1 27.72	24 26 26.9	16 48.3	0.774 103	19 289	12 56.1
30	17 27 33.80	2 15.20	−24 9 38.6	18 53.6	0.754 814	17 822	12 50.4
Dez. 1	17 25 18.60	3 2.31	23 50 45.0	20 58.1	0.736 992	16 031	12 43.8
2	17 22 16.29	3 47.23	23 29 46.9	22 57.6	0.720 961	13 910	12 36.4
3	17 18 29.06	4 27.78	23 6 49.3	24 46.4	0.707 051	11 469	12 28.4
4	17 14 1.28	5 1.70	22 42 2.9	26 17.1	0.695 582	8 741	12 19.7
5	17 8 59.58	5 26.84	22 15 45.8	27 21.1	0.686 841	5 775	12 10.6
6	17 3 32.74	5 41.50	−21 48 24.7	27 49.7	0.681 066	2 642	12 1.1
7	16 57 51.24	5 44.63	21 20 35.0	27 36.3	0.678 424	572	11 51.5
8	16 52 6.61	5 36.12	20 52 58.7	26 36.6	0.678 996	3 774	11 41.9
9	16 46 30.49	5 16.69	20 26 22.1	24 50.6	0.682 770	6 872	11 32.6
10	16 41 13.80	4 47.86	20 1 31.5	22 22.4	0.689 642	9 782	11 23.6
11	16 36 25.94	4 11.66	19 39 9.1	19 20.0	0.699 424	12 439	11 15.2
12	16 32 14.28	3 30.29	−19 19 49.1	15 53.0	0.711 863	14 794	11 7.4
13	16 28 43.99	2 45.94	19 3 56.1	12 12.5	0.726 657	16 822	11 0.3
14	16 25 58.05	2 0.51	18 51 43.6	8 28.5	0.743 479	18 516	10 54.0
15	16 23 57.54	1 15.53	18 43 15.1	4 49.7	0.761 995	19 883	10 48.4
16	16 22 42.01	0 32.17	18 38 25.4	1 23.0	0.781 878	20 944	10 43.5
17	16 22 9.84	0 8.80	18 37 2.4	1 46.8	0.802 822	21 726	10 39.4
18	16 22 18.64	0 46.94	−18 38 49.2	4 37.2	0.824 548	22 257	10 35.9
19	16 23 5.58	1 21.99	18 43 26.4	7 6.5	0.846 805	22 571	10 33.0
20	16 24 27.57	1 53.94	18 50 32.9	9 14.5	0.869 376	22 699	10 30.7
21	16 26 21.51	2 22.88	18 59 47.4	11 1.8	0.892 075	22 669	10 28.8
22	16 28 44.39	2 48.96	19 10 49.2	12 29.7	0.914 744	22 510	10 27.5
23	16 31 33.35	3 12.39	19 23 18.9	13 39.3	0.937 254	22 242	10 26.5
24	16 34 45.74	3 33.42	−19 36 58.2	14 32.4	0.959 496	21 888	10 25.9
25	16 38 19.16	3 52.27	19 51 30.6	15 10.6	0.981 384	21 465	10 25.7
26	16 42 11.43	4 9.17	20 6 41.2	15 35.2	1.002 849	20 987	10 25.7
27	16 46 20.60	4 24.33	20 22 16.4	15 47.9	1.023 836	20 468	10 26.1
28	16 50 44.93	4 37.95	20 38 4.3	15 49.9	1.044 304	19 918	10 26.6
29	16 55 22.88	4 50.22	20 53 54.2	15 42.6	1.064 222	19 344	10 27.4
30	17 0 13.10	5 1.28	−21 9 36.8	15 26.8	1.083 566	18 756	10 28.4
31	17 5 14.38	5 11.27	21 25 3.6	15 3.7	1.102 322	18 156	10 29.5
32	17 10 25.65		−21 40 7.3		1.120 478		10 30.9

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	21 44 59.32	4 27.58	−15 23 28.7	25 31.9	0.939 872	7 011	15 8.1
1	21 49 26.90	4 25.84	14 57 56.8	25 52.6	0.932 861	7 027	15 8.6
2	21 53 52.74	4 24.11	14 32 4.2	26 12.5	0.925 834	7 044	15 9.1
3	21 58 16.85	4 22.39	14 5 51.7	26 31.6	0.918 790	7 060	15 9.6
4	22 2 39.24	4 20.69	13 39 20.1	26 50.0	0.911 730	7 077	15 10.0
5	22 6 59.93	4 18.99	13 12 30.1	27 7.4	0.904 653	7 092	15 10.4
6	22 11 18.92	4 17.30	−12 45 22.7	27 24.2	0.897 561	7 109	15 10.7
7	22 15 36.22	4 15.63	12 17 58.5	27 40.2	0.890 452	7 124	15 11.0
8	22 19 51.85	4 13.96	11 50 18.3	27 55.3	0.883 328	7 140	15 11.3
9	22 24 5.81	4 12.32	11 22 23.0	28 9.6	0.876 188	7 156	15 11.6
10	22 28 18.13	4 10.68	10 54 13.4	28 23.3	0.869 032	7 171	15 11.9
11	22 32 28.81	4 9.05	10 25 50.1	28 36.2	0.861 861	7 187	15 12.1
12	22 36 37.86	4 7.44	− 9 57 13.9	28 48.2	0.854 674	7 203	15 12.3
13	22 40 45.30	4 5.83	9 28 25.7	28 59.4	0.847 471	7 218	15 12.4
14	22 44 51.13	4 4.22	8 59 26.3	29 9.9	0.840 253	7 234	15 12.6
15	22 48 55.35	4 2.63	8 30 16.4	29 19.6	0.833 019	7 249	15 12.7
16	22 52 57.98	4 1.03	8 0 56.8	29 28.5	0.825 770	7 264	15 12.8
17	22 56 59.01	3 59.44	7 31 28.3	29 36.6	0.818 506	7 280	15 12.8
18	23 0 58.45	3 57.86	− 7 1 51.7	29 43.9	0.811 226	7 294	15 12.8
19	23 4 56.31	3 56.26	6 32 7.8	29 50.3	0.803 932	7 308	15 12.8
20	23 8 52.57	3 54.67	6 2 17.5	29 56.0	0.796 624	7 323	15 12.8
21	23 12 47.24	3 53.08	5 32 21.5	30 1.0	0.789 301	7 335	15 12.8
22	23 16 40.32	3 51.49	5 2 20.5	30 5.1	0.781 966	7 347	15 12.7
23	23 20 31.81	3 49.90	4 32 15.4	30 8.5	0.774 619	7 360	15 12.6
24	23 24 21.71	3 48.30	− 4 2 6.9	30 10.9	0.767 259	7 370	15 12.5
25	23 28 10.01	3 46.71	3 31 56.0	30 12.8	0.759 889	7 380	15 12.3
26	23 31 56.72	3 45.11	3 1 43.2	30 13.9	0.752 509	7 389	15 12.1
27	23 35 41.83	3 43.50	2 31 29.3	30 14.1	0.745 120	7 398	15 11.9
28	23 39 25.33	3 41.90	2 1 15.2	30 13.7	0.737 722	7 406	15 11.7
29	23 43 7.23	3 40.28	1 31 1.5	30 12.6	0.730 316	7 412	15 11.4
30	23 46 47.51	3 38.67	− 1 0 48.9	30 10.6	0.722 904	7 418	15 11.1
31	23 50 26.18	3 37.03	0 30 38.3	30 7.9	0.715 486	7 424	15 10.8
Febr. 1	23 54 3.21	3 35.39	− 0 0 30.4	30 4.5	0.708 062	7 429	15 10.5
2	23 57 38.60	3 33.73	+ 0 29 34.1	30 0.4	0.700 633	7 433	15 10.1
3	0 1 12.33	3 32.06	0 59 34.5	29 55.7	0.693 200	7 436	15 9.7
4	0 4 44.39	3 30.36	1 29 30.2	29 50.2	0.685 764	7 439	15 9.3
5	0 8 14.75	3 28.65	+ 1 59 20.4	29 43.9	0.678 325	7 441	15 8.9
6	0 11 43.40	3 26.90	2 29 4.3	29 36.9	0.670 884	7 442	15 8.4
7	0 15 10.30	3 25.12	2 58 41.2	29 29.2	0.663 442	7 443	15 7.9
8	0 18 35.42	3 23.31	3 28 10.4	29 20.7	0.655 999	7 443	15 7.3
9	0 21 58.73	3 21.46	3 57 31.1	29 11.7	0.648 556	7 443	15 6.7
10	0 25 20.19		+ 4 26 42.8		0.641 113		15 6.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	0 25 20.19	3 19.57	+ 4 26 42.8	29 1.8	0.641 113	7 440	15 6.1
11	0 28 39.76	3 17.63	4 55 44.6	28 51.1	0.633 673	7 439	15 5.5
12	0 31 57.39	3 15.62	5 24 35.7	28 39.7	0.626 234	7 437	15 4.8
13	0 35 13.01	3 13.56	5 53 15.4	28 27.5	0.618 797	7 433	15 4.1
14	0 38 26.57	3 11.44	6 21 42.9	28 14.6	0.611 364	7 428	15 3.4
15	0 41 38.01	3 9.23	6 49 57.5	28 0.7	0.603 936	7 422	15 2.6
16	0 44 47.24	3 6.94	+ 7 17 58.2	27 46.2	0.596 514	7 416	15 1.8
17	0 47 54.18	3 4.55	7 45 44.4	27 30.7	0.589 098	7 407	15 0.9
18	0 50 58.73	3 2.10	8 13 15.1	27 14.3	0.581 691	7 397	15 0.0
19	0 54 0.83	2 59.54	8 40 29.4	26 57.1	0.574 294	7 385	14 59.1
20	0 57 0.37	2 56.87	9 7 26.5	26 39.1	0.566 909	7 372	14 58.1
21	0 59 57.24	2 54.09	9 34 5.6	26 20.1	0.559 537	7 357	14 57.1
22	1 2 51.33	2 51.21	+10 0 25.7	26 0.2	0.552 180	7 339	14 56.0
23	1 5 42.54	2 48.21	10 26 25.9	25 39.4	0.544 841	7 320	14 54.9
24	1 8 30.75	2 45.08	10 52 5.3	25 17.7	0.537 521	7 297	14 53.8
25	1 11 15.83	2 41.83	11 17 23.0	24 55.2	0.530 224	7 274	14 52.6
26	1 13 57.66	2 38.44	11 42 18.2	24 31.5	0.522 950	7 247	14 51.3
27	1 16 36.10	2 34.92	12 6 49.7	24 7.0	0.515 703	7 218	14 49.9
28	1 19 11.02	2 31.24	+12 30 56.7	23 41.5	0.508 485	7 186	14 48.5
März 1	1 21 42.26	2 27.40	12 54 38.2	23 14.8	0.501 299	7 153	14 47.1
2	1 24 9.66	2 23.41	13 17 53.0	22 47.3	0.494 146	7 115	14 45.6
3	1 26 33.07	2 19.25	13 40 40.3	22 18.6	0.487 031	7 076	14 44.0
4	1 28 52.32	2 14.89	14 2 58.9	21 48.8	0.479 955	7 033	14 42.3
5	1 31 7.21	2 10.37	14 24 47.7	21 17.8	0.472 922	6 988	14 40.5
6	1 33 17.58	2 5.65	+14 46 5.5	20 45.7	0.465 934	6 939	14 38.7
7	1 35 23.23	2 0.72	15 6 51.2	20 12.2	0.458 995	6 887	14 36.8
8	1 37 23.95	1 55.58	15 27 3.4	19 37.4	0.452 108	6 832	14 34.9
9	1 39 19.53	1 50.25	15 46 40.8	19 1.3	0.445 276	6 772	14 32.8
10	1 41 9.78	1 44.67	16 5 42.1	18 23.8	0.438 504	6 711	14 30.6
11	1 42 54.45	1 38.86	16 24 5.9	17 44.9	0.431 793	6 644	14 28.4
12	1 44 33.31	1 32.82	+16 41 50.8	17 4.1	0.425 149	6 573	14 26.0
13	1 46 6.13	1 26.52	16 58 54.9	16 21.7	0.418 576	6 499	14 23.6
14	1 47 32.65	1 19.97	17 15 16.6	15 37.4	0.412 077	6 420	14 21.0
15	1 48 52.62	1 13.15	17 30 54.0	14 51.3	0.405 657	6 336	14 18.3
16	1 50 5.77	1 6.08	17 45 45.3	14 3.3	0.399 321	6 246	14 15.5
17	1 51 11.85	0 58.73	17 59 48.6	13 12.8	0.393 075	6 151	14 12.6
18	1 52 10.58	0 51.13	+18 13 1.4	12 20.2	0.386 924	6 050	14 9.6
19	1 53 1.71	0 43.26	18 25 21.6	11 25.3	0.380 874	5 943	14 6.5
20	1 53 44.97	0 35.17	18 36 46.9	10 27.9	0.374 931	5 828	14 3.2
21	1 54 20.14	0 26.84	18 47 14.8	9 28.0	0.369 103	5 707	13 59.7
22	1 54 46.98	0 18.30	18 56 42.8	8 25.2	0.363 396	5 578	13 56.2
23	1 55 5.28		+19 5 8.0		0.357 818		13 52.5

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
März	23	1 55 5.28	0 9.58	+19 5 8.0	7 20.1	0.357 818	5 441	13 52.5
	24	1 55 14.86	0 0.73	19 12 28.1	6 12.4	0.352 377	5 297	13 48.6
	25	1 55 15.59	0 8.26	19 18 40.5	5 1.8	0.347 080	5 144	13 44.6
	26	1 55 7.33	0 17.36	19 23 42.3	3 48.5	0.341 936	4 983	13 40.4
	27	1 54 49.97	0 26.49	19 27 30.8	2 32.6	0.336 953	4 813	13 36.1
	28	1 54 23.48	0 35.62	19 30 3.4	1 14.5	0.332 140	4 634	13 31.7
	29	1 53 47.86	0 44.71	+19 31 17.9	0 6.5	0.327 506	4 447	13 27.1
	30	1 53 3.15	0 53.69	19 31 11.4	1 29.5	0.323 059	4 249	13 22.3
	31	1 52 9.46	1 2.49	19 29 41.9	2 54.4	0.318 810	4 044	13 17.4
April	1	1 51 6.97	1 11.07	19 26 47.5	4 21.1	0.314 766	3 828	13 12.4
	2	1 49 55.90	1 19.35	19 22 26.4	5 48.9	0.310 938	3 605	13 7.2
	3	1 48 36.55	1 27.25	19 16 37.5	7 17.8	0.307 333	3 371	13 1.9
	4	1 47 9.30	1 34.71	+19 9 19.7	8 47.1	0.303 962	3 130	12 56.4
	5	1 45 34.59	1 41.68	19 0 32.6	10 15.9	0.300 832	2 880	12 50.9
	6	1 43 52.91	1 48.04	18 50 16.7	11 44.1	0.297 952	2 622	12 45.2
	7	1 42 4.87	1 53.77	18 38 32.6	13 10.7	0.295 330	2 357	12 39.4
	8	1 40 11.10	1 58.80	18 25 21.9	14 35.1	0.292 973	2 084	12 33.5
	9	1 38 12.30	2 3.07	18 10 46.8	15 56.7	0.290 889	1 806	12 27.6
	10	1 36 9.23	2 6.55	+17 54 50.1	17 14.5	0.289 083	1 521	12 21.6
	11	1 34 2.68	2 9.18	17 37 35.6	18 27.8	0.287 562	1 232	12 15.6
	12	1 31 53.50	2 10.94	17 19 7.8	19 36.3	0.286 330	939	12 9.5
	13	1 29 42.56	2 11.82	16 59 31.5	20 38.6	0.285 391	641	12 3.4
	14	1 27 30.74	2 11.82	16 38 52.9	21 34.5	0.284 750	341	11 57.2
	15	1 25 18.92	2 10.90	16 17 18.4	22 23.6	0.284 409	38	11 51.1
	16	1 23 8.02	2 9.09	+15 54 54.8	23 5.0	0.284 371	264	11 45.1
	17	1 20 58.93	2 6.42	15 31 49.8	23 38.5	0.284 635	568	11 39.0
	18	1 18 52.51	2 2.90	15 8 11.3	24 3.5	0.285 203	871	11 33.0
	19	1 16 49.61	1 58.58	14 44 7.8	24 20.4	0.286 074	1 170	11 27.1
	20	1 14 51.03	1 53.51	14 19 47.4	24 28.5	0.287 244	1 469	11 21.2
	21	1 12 57.52	1 47.74	13 55 18.9	24 28.2	0.288 713	1 762	11 15.4
	22	1 11 9.78	1 41.34	+13 30 50.7	24 20.0	0.290 475	2 051	11 9.8
	23	1 9 28.44	1 34.38	13 6 30.7	24 3.6	0.292 526	2 335	11 4.2
	24	1 7 54.06	1 26.91	12 42 27.1	23 39.7	0.294 861	2 612	10 58.8
	25	1 6 27.15	1 19.04	12 18 47.4	23 9.1	0.297 473	2 882	10 53.5
	26	1 5 8.11	1 10.82	11 55 38.3	22 31.7	0.300 355	3 145	10 48.3
	27	1 3 57.29	1 2.30	11 33 6.6	21 48.6	0.303 500	3 399	10 43.3
	28	1 2 54.99	0 53.58	+11 11 18.0	21 0.1	0.306 899	3 645	10 38.4
	29	1 2 1.41	0 44.69	10 50 17.9	20 7.1	0.310 544	3 884	10 33.6
	30	1 1 16.72	0 35.72	10 30 10.8	19 10.3	0.314 428	4 111	10 29.0
Mai	1	1 0 41.00	0 26.72	10 11 0.5	18 10.0	0.318 539	4 331	10 24.5
	2	1 0 14.28	0 17.71	9 52 50.5	17 6.9	0.322 870	4 542	10 20.2
	3	0 59 56.57		+9 35 43.6		0.327 412		10 16.1

Tag	Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Mai 3	0 59 56.57	0 8.76	+ 9 35 43.6	16 1.8	0.327 412	4 743	10 16.1
4	0 59 47.81	$\overline{0\ 0.10}$	9 19 41.8	14 55.1	0.332 155	4 935	10 12.1
5	0 59 47.91	0 8.82	9 4 46.7	13 47.2	0.337 090	5 118	10 8.2
6	0 59 56.73	0 17.39	8 50 59.5	12 38.8	0.342 208	5 292	10 4.5
7	1 0 14.12	0 25.77	8 38 20.7	11 30.3	0.347 500	5 458	10 0.9
8	1 0 39.89	0 33.97	8 26 50.4	10 21.7	0.352 958	5 615	9 57.4
9	1 1 13.86	0 41.92	+ 8 16 28.7	9 13.9	0.358 573	5 764	9 54.1
10	1 1 55.78	0 49.65	8 7 14.8	8 6.8	0.364 337	5 907	9 50.9
11	1 2 45.43	0 57.16	7 59 8.0	7 0.7	0.370 244	6 041	9 47.9
12	1 3 42.59	1 4.42	7 52 7.3	5 55.8	0.376 285	6 169	9 44.9
13	1 4 47.01	1 11.44	7 46 11.5	4 52.3	0.382 454	6 290	9 42.1
14	1 5 58.45	1 18.24	7 41 19.2	3 50.1	0.388 744	6 406	9 39.4
15	1 7 16.69	1 24.80	+ 7 37 29.1	2 49.8	0.395 150	6 516	9 36.8
16	1 8 41.49	1 31.12	7 34 39.3	1 50.9	0.401 666	6 619	9 34.3
17	1 10 12.61	1 37.24	7 32 48.4	0 53.7	0.408 285	6 719	9 32.0
18	1 11 49.85	1 43.15	7 31 54.7	$\overline{0\ 1.7}$	0.415 004	6 812	9 29.7
19	1 13 33.00	1 48.85	7 31 56.4	0 55.5	0.421 816	6 901	9 27.5
20	1 15 21.85	1 54.33	7 32 51.9	1 47.3	0.428 717	6 985	9 25.4
21	1 17 16.18	1 59.65	+ 7 34 39.2	2 37.4	0.435 702	7 065	9 23.4
22	1 19 15.83	2 4.75	7 37 16.6	3 25.8	0.442 767	7 140	9 21.5
23	1 21 20.58	2 9.69	7 40 42.4	4 12.2	0.449 907	7 210	9 19.7
24	1 23 30.27	2 14.45	7 44 54.6	4 57.0	0.457 117	7 277	9 17.9
25	1 25 44.72	2 19.03	7 49 51.6	5 39.9	0.464 394	7 340	9 16.3
26	1 28 3.75	2 23.46	7 55 31.5	6 21.1	0.471 734	7 399	9 14.7
27	1 30 27.21	2 27.75	+ 8 1 52.6	7 0.6	0.479 133	7 454	9 13.1
28	1 32 54.96	2 31.87	8 8 53.2	7 38.1	0.486 587	7 506	9 11.7
29	1 35 26.83	2 35.85	8 16 31.3	8 14.2	0.494 093	7 555	9 10.3
30	1 38 2.68	2 39.71	8 24 45.5	8 48.5	0.501 648	7 600	9 9.0
31	1 40 42.39	2 43.43	8 33 34.0	9 21.1	0.509 248	7 641	9 7.7
Juni 1	1 43 25.82	2 47.03	8 42 55.1	9 52.1	0.516 889	7 681	9 6.5
2	1 46 12.85	2 50.50	+ 8 52 47.2	10 21.4	0.524 570	7 716	9 5.4
3	1 49 3.35	2 53.85	9 3 8.6	10 49.2	0.532 286	7 749	9 4.3
4	1 51 57.20	2 57.11	9 13 57.8	11 15.3	0.540 035	7 779	9 3.3
5	1 54 54.31	3 0.25	9 25 13.1	11 39.9	0.547 814	7 807	9 2.3
6	1 57 54.56	3 3.29	9 36 53.0	12 3.0	0.555 621	7 833	9 1.4
7	2 0 57.85	3 6.23	9 48 56.0	12 24.5	0.563 454	7 856	9 0.5
8	2 4 4.08	3 9.08	+10 1 20.5	12 44.6	0.571 310	7 877	8 59.7
9	2 7 13.16	3 11.85	10 14 5.1	13 3.2	0.579 187	7 897	8 58.9
10	2 10 25.01	3 14.54	10 27 8.3	13 20.4	0.587 084	7 914	8 58.2
11	2 13 39.55	3 17.15	10 40 28.7	13 36.1	0.594 998	7 931	8 57.5
12	2 16 56.70	3 19.70	10 54 4.8	13 50.8	0.602 929	7 946	8 56.9
13	2 20 16.40		+11 7 55.6		0.610 875		8 56.3

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Juni	13	2 20 16.40	3 22.19	+11 7 55.6	14 3.9	0.610 875	7 960	8 56.3
	14	2 23 38.59	3 24.62	11 21 59.5	14 16.0	0.618 835	7 972	8 55.7
	15	2 27 3.21	3 27.00	11 36 15.5	14 26.6	0.626 807	7 983	8 55.2
	16	2 30 30.21	3 29.33	11 50 42.1	14 36.2	0.634 790	7 993	8 54.7
	17	2 33 59.54	3 31.63	12 5 18.3	14 44.6	0.642 783	8 002	8 54.3
	18	2 37 31.17	3 33.87	12 20 2.9	14 51.8	0.650 785	8 010	8 53.9
	19	2 41 5.04	3 36.10	+12 34 54.7	14 57.9	0.658 795	8 016	8 53.5
	20	2 44 41.14	3 38.27	12 49 52.6	15 2.9	0.666 811	8 021	8 53.2
	21	2 48 19.41	3 40.42	13 4 55.5	15 6.8	0.674 832	8 025	8 52.9
	22	2 51 59.83	3 42.53	13 20 2.3	15 9.7	0.682 857	8 028	8 52.7
	23	2 55 42.36	3 44.63	13 35 12.0	15 11.4	0.690 885	8 030	8 52.5
	24	2 59 26.99	3 46.68	13 50 23.4	15 12.1	0.698 915	8 030	8 52.3
	25	3 3 13.67	3 48.72	+14 5 35.5	15 11.9	0.706 945	8 030	8 52.1
	26	3 7 2.39	3 50.74	14 20 47.4	15 10.5	0.714 975	8 028	8 52.0
	27	3 10 53.13	3 52.72	14 35 57.9	15 8.3	0.723 003	8 024	8 51.9
	28	3 14 45.85	3 54.69	14 51 6.2	15 4.8	0.731 027	8 020	8 51.8
	29	3 18 40.54	3 56.63	15 6 11.0	15 0.6	0.739 047	8 015	8 51.8
	30	3 22 37.17	3 58.55	15 21 11.6	14 55.2	0.747 062	8 008	8 51.8
Juli	1	3 26 35.72	4 0.44	+15 36 6.8	14 49.0	0.755 070	8 000	8 51.9
	2	3 30 36.16	4 2.32	15 50 55.8	14 41.6	0.763 070	7 990	8 52.0
	3	3 34 38.48	4 4.15	16 5 37.4	14 33.5	0.771 060	7 980	8 52.1
	4	3 38 42.63	4 5.97	16 20 10.9	14 24.3	0.779 040	7 969	8 52.2
	5	3 42 48.60	4 7.76	16 34 35.2	14 14.2	0.787 009	7 957	8 52.4
	6	3 46 56.36	4 9.52	16 48 49.4	14 3.1	0.794 966	7 943	8 52.6
	7	3 51 5.88	4 11.26	+17 2 52.5	13 51.1	0.802 909	7 930	8 52.8
	8	3 55 17.14	4 12.97	17 16 43.6	13 38.2	0.810 839	7 915	8 53.1
	9	3 59 30.11	4 14.65	17 30 21.8	13 24.4	0.818 754	7 901	8 53.4
	10	4 3 44.76	4 16.31	17 43 46.2	13 9.9	0.826 655	7 885	8 53.7
	11	4 8 1.07	4 17.95	17 56 56.1	12 54.3	0.834 540	7 869	8 54.0
	12	4 12 19.02	4 19.57	18 9 50.4	12 38.0	0.842 409	7 854	8 54.4
	13	4 16 38.59	4 21.15	+18 22 28.4	12 21.0	0.850 263	7 836	8 54.8
	14	4 20 59.74	4 22.73	18 34 49.4	12 3.0	0.858 099	7 820	8 55.2
	15	4 25 22.47	4 24.27	18 46 52.4	11 44.4	0.865 919	7 803	8 55.6
	16	4 29 46.74	4 25.80	18 58 36.8	11 24.8	0.873 722	7 785	8 56.1
	17	4 34 12.54	4 27.30	19 10 1.6	11 4.7	0.881 507	7 767	8 56.6
	18	4 38 39.84	4 28.78	19 21 6.3	10 43.7	0.889 274	7 749	8 57.1
	19	4 43 8.62	4 30.24	+19 31 50.0	10 22.1	0.897 023	7 730	8 57.7
	20	4 47 38.86	4 31.66	19 42 12.1	9 59.8	0.904 753	7 710	8 58.2
	21	4 52 10.52	4 33.07	19 52 11.9	9 36.7	0.912 463	7 691	8 58.8
	22	4 56 43.59	4 34.45	20 1 48.6	9 12.9	0.920 154	7 670	8 59.4
	23	5 1 18.04	4 35.80	20 11 1.5	8 48.6	0.927 824	7 650	9 0.1
	24	5 5 53.84		+20 19 50.1		0.935 474		9 0.7

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Juli	24	5 5 53.84	4 37.13	+20 19 50.1	8 23.4	0.935 474	7 628	9 0.7
	25	5 10 30.97	4 38.42	20 28 13.5	7 57.9	0.943 102	7 606	9 1.4
	26	5 15 9.39	4 39.69	20 36 11.4	7 31.5	0.950 708	7 583	9 2.1
	27	5 19 49.08	4 40.91	20 43 42.9	7 4.7	0.958 291	7 559	9 2.9
	28	5 24 29.99	4 42.11	20 50 47.6	6 37.1	0.965 850	7 535	9 3.6
	29	5 29 12.10	4 43.26	20 57 24.7	6 9.1	0.973 385	7 510	9 4.4
	30	5 33 55.36	4 44.39	+21 3 33.8	5 40.5	0.980 895	7 484	9 5.2
	31	5 38 39.75	4 45.46	21 9 14.3	5 11.4	0.988 379	7 457	9 6.0
Aug.	1	5 43 25.21	4 46.48	21 14 25.7	4 41.7	0.995 836	7 430	9 6.8
	2	5 48 11.69	4 47.47	21 19 7.4	4 11.6	1.003 266	7 402	9 7.6
	3	5 52 59.16	4 48.41	21 23 19.0	3 41.0	1.010 668	7 374	9 8.5
	4	5 57 47.57	4 49.29	21 27 0.0	3 9.8	1.018 042	7 344	9 9.3
	5	6 2 36.86	4 50.14	+21 30 9.8	2 38.4	1.025 386	7 315	9 10.2
	6	6 7 27.00	4 50.92	21 32 48.2	2 6.6	1.032 701	7 285	9 11.1
	7	6 12 17.92	4 51.67	21 34 54.8	1 34.3	1.039 986	7 255	9 12.0
	8	6 17 9.59	4 52.35	21 36 29.1	1 1.7	1.047 241	7 225	9 13.0
	9	6 22 1.94	4 52.99	21 37 30.8	0 28.9	1.054 466	7 194	9 13.9
	10	6 26 54.93	4 53.58	21 37 59.7	0 4.3	1.061 660	7 164	9 14.8
	11	6 31 48.51	4 54.13	+21 37 55.4	0 37.7	1.068 824	7 133	9 15.8
	12	6 36 42.64	4 54.62	21 37 17.7	1 11.3	1.075 957	7 103	9 16.8
	13	6 41 37.26	4 55.06	21 36 6.4	1 45.2	1.083 060	7 071	9 17.7
	14	6 46 32.32	4 55.47	21 34 21.2	2 19.2	1.090 131	7 041	9 18.7
	15	6 51 27.79	4 55.82	21 32 2.0	2 53.4	1.097 172	7 010	9 19.7
	16	6 56 23.61	4 56.12	21 29 8.6	3 27.6	1.104 182	6 979	9 20.7
	17	7 1 19.73	4 56.39	+21 25 41.0	4 2.1	1.111 161	6 947	9 21.7
	18	7 6 16.12	4 56.60	21 21 38.9	4 36.6	1.118 108	6 915	9 22.7
	19	7 11 12.72	4 56.77	21 17 2.3	5 11.0	1.125 023	6 884	9 23.7
	20	7 16 9.49	4 56.89	21 11 51.3	5 45.6	1.131 907	6 851	9 24.7
	21	7 21 6.38	4 56.98	21 6 5.7	6 20.2	1.138 758	6 820	9 25.7
	22	7 26 3.36	4 57.03	20 59 45.5	6 54.7	1.145 578	6 787	9 26.7
	23	7 31 0.39	4 57.03	+20 52 50.8	7 29.1	1.152 365	6 754	9 27.7
	24	7 35 57.42	4 56.99	20 45 21.7	8 3.6	1.159 119	6 720	9 28.7
	25	7 40 54.41	4 56.91	20 37 18.1	8 37.9	1.165 839	6 686	9 29.7
	26	7 45 51.32	4 56.80	20 28 40.2	9 12.0	1.172 525	6 652	9 30.7
	27	7 50 48.12	4 56.64	20 19 28.2	9 46.1	1.179 177	6 617	9 31.7
	28	7 55 44.76	4 56.44	20 9 42.1	10 20.0	1.185 794	6 580	9 32.7
	29	8 0 41.20	4 56.20	+19 59 22.1	10 53.7	1.192 374	6 545	9 33.7
	30	8 5 37.40	4 55.93	19 48 28.4	11 27.1	1.198 919	6 507	9 34.7
	31	8 10 33.33	4 55.63	19 37 1.3	12 0.3	1.205 426	6 470	9 35.7
Sept.	1	8 15 28.96	4 55.27	19 25 1.0	12 33.2	1.211 896	6 432	9 36.7
	2	8 20 24.23	4 54.88	19 12 27.8	13 5.9	1.218 328	6 393	9 37.7
	3	8 25 19.11		+18 59 21.9		1.224 721		9 38.7

Venus 1945

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	8 25 19.11	4 54.48	+18 59 21.9	13 38.2	1.224 721	6 355	9 38.7
4	8 30 13.59	4 54.02	18 45 43.7	14 10.2	1.231 076	6 317	9 39.6
5	8 35 7.61	4 53.55	18 31 33.5	14 41.8	1.237 393	6 278	9 40.6
6	8 40 1.16	4 53.04	18 16 51.7	15 13.0	1.243 671	6 238	9 41.5
7	8 44 54.20	4 52.51	18 1 38.7	15 43.8	1.249 909	6 200	9 42.5
8	8 49 46.71	4 51.97	17 45 54.9	16 14.2	1.256 109	6 161	9 43.4
9	8 54 38.68	4 51.39	+17 29 40.7	16 44.2	1.262 270	6 121	9 44.3
10	8 59 30.07	4 50.81	17 12 56.5	17 13.7	1.268 391	6 083	9 45.2
11	9 4 20.88	4 50.21	16 55 42.8	17 42.8	1.274 474	6 043	9 46.1
12	9 9 11.09	4 49.59	16 38 0.0	18 11.3	1.280 517	6 004	9 47.0
13	9 14 0.68	4 48.96	16 19 48.7	18 39.4	1.286 521	5 966	9 47.9
14	9 18 49.64	4 48.33	16 1 9.3	19 7.0	1.292 487	5 927	9 48.8
15	9 23 37.97	4 47.69	+15 42 2.3	19 34.0	1.298 414	5 887	9 49.6
16	9 28 25.66	4 47.05	15 22 28.3	20 0.5	1.304 301	5 849	9 50.5
17	9 33 12.71	4 46.40	15 2 27.8	20 26.6	1.310 150	5 809	9 51.3
18	9 37 59.11	4 45.76	14 42 1.2	20 51.9	1.315 959	5 771	9 52.1
19	9 42 44.87	4 45.12	14 21 9.3	21 16.9	1.321 730	5 731	9 53.0
20	9 47 29.99	4 44.48	13 59 52.4	21 41.2	1.327 461	5 693	9 53.8
21	9 52 14.47	4 43.86	+13 38 11.2	22 4.9	1.333 154	5 653	9 54.6
22	9 56 58.33	4 43.23	13 16 6.3	22 28.1	1.338 807	5 614	9 55.3
23	10 1 41.56	4 42.62	12 53 38.2	22 50.8	1.344 421	5 574	9 56.1
24	10 6 24.18	4 42.02	12 30 47.4	23 12.7	1.349 995	5 533	9 56.9
25	10 11 6.20	4 41.44	12 7 34.7	23 34.2	1.355 528	5 492	9 57.6
26	10 15 47.64	4 40.86	11 44 0.5	23 54.9	1.361 020	5 451	9 58.4
27	10 20 28.50	4 40.29	+11 20 5.6	24 15.0	1.366 471	5 409	9 59.1
28	10 25 8.79	4 39.74	10 55 50.6	24 34.6	1.371 880	5 366	9 59.8
29	10 29 48.53	4 39.20	10 31 16.0	24 53.5	1.377 246	5 324	10 0.6
30	10 34 27.73	4 38.68	10 6 22.5	25 11.6	1.382 570	5 281	10 1.3
Okt. 1	10 39 6.41	4 38.17	9 41 10.9	25 29.2	1.387 851	5 237	10 2.0
2	10 43 44.58	4 37.68	9 15 41.7	25 46.0	1.393 088	5 194	10 2.7
3	10 48 22.26	4 37.21	+ 8 49 55.7	26 2.2	1.398 282	5 151	10 3.3
4	10 52 59.47	4 36.76	8 23 53.5	26 17.7	1.403 433	5 106	10 4.0
5	10 57 36.23	4 36.34	7 57 35.8	26 32.6	1.408 539	5 063	10 4.7
6	11 2 12.57	4 35.93	7 31 3.2	26 46.7	1.413 602	5 019	10 5.3
7	11 6 48.50	4 35.55	7 4 16.5	27 0.1	1.418 621	4 976	10 6.0
8	11 11 24.05	4 35.19	6 37 16.4	27 12.8	1.423 597	4 932	10 6.6
9	11 15 59.24	4 34.87	+ 6 10 3.6	27 24.9	1.428 529	4 889	10 7.3
10	11 20 34.11	4 34.56	5 42 38.7	27 36.2	1.433 418	4 845	10 7.9
11	11 25 8.67	4 34.29	5 15 2.5	27 46.8	1.438 263	4 801	10 8.5
12	11 29 42.96	4 34.05	4 47 15.7	27 56.8	1.443 064	4 759	10 9.2
13	11 34 17.01	4 33.85	4 19 18.9	28 5.9	1.447 823	4 716	10 9.8
14	11 38 50.86		+ 3 51 13.0		1.452 539		10 10.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	11 38 50.86	4 33.66	+ 3 51 13.0	28 14.5	1.452 539	4 673	10 10.4
15	11 43 24.52	4 33.52	3 22 58.5	28 22.3	1.457 212	4 630	10 11.0
16	11 47 58.04	4 33.41	2 54 36.2	28 29.4	1.461 842	4 588	10 11.7
17	11 52 31.45	4 33.34	2 26 6.8	28 35.8	1.466 430	4 546	10 12.3
18	11 57 4.79	4 33.29	1 57 31.0	28 41.5	1.470 976	4 504	10 12.9
19	12 1 38.08	4 33.30	1 28 49.5	28 46.5	1.475 480	4 461	10 13.5
20	12 6 11.38	4 33.33	+ 1 0 3.0	28 50.7	1.479 941	4 420	10 14.1
21	12 10 44.71	4 33.41	0 31 12.3	28 54.4	1.484 361	4 377	10 14.7
22	12 15 18.12	4 33.53	+ 0 2 17.9	28 57.2	1.488 738	4 335	10 15.3
23	12 19 51.65	4 33.68	− 0 26 39.3	28 59.4	1.493 073	4 293	10 16.0
24	12 24 25.33	4 33.87	0 55 38.7	29 0.9	1.497 366	4 250	10 16.6
25	12 28 59.20	4 34.10	1 24 39.6	29 1.5	1.501 616	4 206	10 17.2
26	12 33 33.30	4 34.36	− 1 53 41.1	29 1.5	1.505 822	4 163	10 17.8
27	12 38 7.66	4 34.66	2 22 42.6	29 0.8	1.509 985	4 119	10 18.4
28	12 42 42.32	4 35.01	2 51 43.4	28 59.3	1.514 104	4 074	10 19.1
29	12 47 17.33	4 35.37	3 20 42.7	28 56.9	1.518 178	4 030	10 19.7
30	12 51 52.70	4 35.79	3 49 39.6	28 54.0	1.522 208	3 985	10 20.4
31	12 56 28.49	4 36.22	4 18 33.6	28 50.1	1.526 193	3 941	10 21.0
Nov. 1	13 1 4.71	4 36.70	−4 47 23.7	28 45.5	1.530 134	3 896	10 21.7
2	13 5 41.41	4 37.22	5 16 9.2	28 40.1	1.534 030	3 851	10 22.4
3	13 10 18.63	4 37.76	5 44 49.3	28 34.1	1.537 881	3 806	10 23.1
4	13 14 56.39	4 38.34	6 13 23.4	28 27.1	1.541 687	3 761	10 23.8
5	13 19 34.73	4 38.95	6 41 50.5	28 19.4	1.545 448	3 717	10 24.5
6	13 24 13.68	4 39.61	7 10 9.9	28 11.0	1.549 165	3 672	10 25.2
7	13 28 53.29	4 40.29	− 7 38 20.9	28 1.7	1.552 837	3 628	10 25.9
8	13 33 33.58	4 41.00	8 6 22.6	27 51.6	1.556 465	3 584	10 26.6
9	13 38 14.58	4 41.75	8 34 14.2	27 40.8	1.560 049	3 539	10 27.4
10	13 42 56.33	4 42.53	9 1 55.0	27 29.1	1.563 588	3 496	10 28.1
11	13 47 38.86	4 43.34	9 29 24.1	27 16.6	1.567 084	3 453	10 28.9
12	13 52 22.20	4 44.18	9 56 40.7	27 3.5	1.570 537	3 409	10 29.7
13	13 57 6.38	4 45.06	−10 23 44.2	26 49.4	1.573 946	3 367	10 30.5
14	14 1 51.44	4 45.96	10 50 33.6	26 34.6	1.577 313	3 324	10 31.3
15	14 6 37.40	4 46.90	11 17 8.2	26 19.1	1.580 637	3 282	10 32.1
16	14 11 24.30	4 47.86	11 43 27.3	26 2.6	1.583 919	3 240	10 33.0
17	14 16 12.16	4 48.85	12 9 29.9	25 45.4	1.587 159	3 198	10 33.8
18	14 21 1.01	4 49.87	12 35 15.3	25 27.5	1.590 357	3 158	10 34.7
19	14 25 50.88	4 50.92	−13 0 42.8	25 8.6	1.593 515	3 115	10 35.6
20	14 30 41.80	4 51.99	13 25 51.4	24 49.2	1.596 630	3 074	10 36.5
21	14 35 33.79	4 53.09	13 50 40.6	24 28.9	1.599 704	3 033	10 37.5
22	14 40 26.88	4 54.21	14 15 9.5	24 7.7	1.602 737	2 991	10 38.4
23	14 45 21.09	4 55.34	14 39 17.2	23 45.9	1.605 728	2 949	10 39.4
24	14 50 16.43		−15 3 3.1		1.608 677		10 40.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	14 50 16.43	4 56.49	−15 3 3.1	23 23.1	1.608 677	2 907	10 40.4
25	14 55 12.92	4 57.67	15 26 26.2	22 59.6	1.611 584	2 865	10 41.4
26	15 0 10.59	4 58.84	15 49 25.8	22 35.3	1.614 449	2 821	10 42.4
27	15 5 9.43	5 0.04	16 12 1.1	22 10.1	1.617 270	2 779	10 43.5
28	15 10 9.47	5 1.23	16 34 11.2	21 44.3	1.620 049	2 736	10 44.5
29	15 15 10.70	5 2.43	16 55 55.5	21 17.5	1.622 785	2 694	10 45.6
30	15 20 13.13	5 3.64	−17 17 13.0	20 50.1	1.625 479	2 650	10 46.7
Dez. 1	15 25 16.77	5 4.84	17 38 3.1	20 21.8	1.628 129	2 607	10 47.8
2	15 30 21.61	5 6.05	17 58 24.9	19 52.7	1.630 736	2 564	10 49.0
3	15 35 27.66	5 7.25	18 18 17.6	19 22.9	1.633 300	2 521	10 50.2
4	15 40 34.91	5 8.43	18 37 40.5	18 52.3	1.635 821	2 478	10 51.4
5	15 45 43.34	5 9.62	18 56 32.8	18 21.0	1.638 299	2 435	10 52.6
6	15 50 52.96	5 10.79	−19 14 53.8	17 48.8	1.640 734	2 392	10 53.8
7	15 56 3.75	5 11.95	19 32 42.6	17 16.1	1.643 126	2 351	10 55.0
8	16 1 15.70	5 13.10	19 49 58.7	16 42.6	1.645 477	2 308	10 56.3
9	16 6 28.80	5 14.20	20 6 41.3	16 8.4	1.647 785	2 266	10 57.6
10	16 11 43.00	5 15.30	20 22 49.7	15 33.5	1.650 051	2 225	10 58.9
11	16 16 58.30	5 16.38	20 38 23.2	14 58.0	1.652 276	2 183	11 0.2
12	16 22 14.68	5 17.42	−20 53 21.2	14 21.7	1.654 459	2 143	11 1.5
13	16 27 32.10	5 18.44	21 7 42.9	13 44.9	1.656 602	2 102	11 2.9
14	16 32 50.54	5 19.44	21 21 27.8	13 7.5	1.658 704	2 062	11 4.3
15	16 38 9.98	5 20.39	21 34 35.3	12 29.5	1.660 766	2 022	11 5.7
16	16 43 30.37	5 21.32	21 47 4.8	11 51.0	1.662 788	1 983	11 7.1
17	16 48 51.69	5 22.20	21 58 55.8	11 11.9	1.664 771	1 944	11 8.5
18	16 54 13.89	5 23.06	−22 10 7.7	10 32.4	1.666 715	1 905	11 9.9
19	16 59 36.95	5 23.86	22 20 40.1	9 52.3	1.668 620	1 865	11 11.4
20	17 5 0.81	5 24.63	22 30 32.4	9 11.7	1.670 485	1 827	11 12.8
21	17 10 25.44	5 25.35	22 39 44.1	8 30.8	1.672 312	1 788	11 14.3
22	17 15 50.79	5 26.02	22 48 14.9	7 49.4	1.674 100	1 749	11 15.8
23	17 21 16.81	5 26.64	22 56 4.3	7 7.7	1.675 849	1 709	11 17.3
24	17 26 43.45	5 27.22	−23 3 12.0	6 25.6	1.677 558	1 669	11 18.8
25	17 32 10.67	5 27.73	23 9 37.6	5 43.1	1.679 227	1 629	11 20.3
26	17 37 38.40	5 28.19	23 15 20.7	5 0.5	1.680 856	1 590	11 21.9
27	17 43 6.59	5 28.59	23 20 21.2	4 17.4	1.682 446	1 549	11 23.4
28	17 48 35.18	5 28.92	23 24 38.6	3 34.2	1.683 995	1 509	11 24.9
29	17 54 4.10	5 29.20	23 28 12.8	2 50.8	1.685 504	1 469	11 26.5
30	17 59 33.30	5 29.41	−23 31 3.6	2 7.2	1.686 973	1 428	11 28.0
31	18 5 2.71	5 29.57	23 33 10.8	1 23.4	1.688 401	1 387	11 29.6
32	18 10 32.28		−23 34 34.2		1.689 788		11 31.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	17 41 6.27	3 14.36	−23 54 1.8	1 55.4	2.420 347	3 168	11 3.6
1	17 44 20.63	3 14.65	23 55 57.2	1 40.5	2.417 179	3 192	11 2.9
2	17 47 35.28	3 14.93	23 57 37.7	1 25.4	2.413 987	3 216	11 2.2
3	17 50 50.21	3 15.19	23 59 3.1	1 10.4	2.410 771	3 241	11 1.5
4	17 54 5.40	3 15.43	24 0 13.5	0 55.2	2.407 530	3 265	11 0.8
5	17 57 20.83	3 15.67	24 1 8.7	0 39.9	2.404 265	3 288	11 0.1
6	18 0 36.50	3 15.90	−24 1 48.6	0 24.8	2.400 977	3 312	10 59.5
7	18 3 52.40	3 16.10	24 2 13.4	0 9.4	2.397 665	3 335	10 58.8
8	18 7 8.50	3 16.29	24 2 22.8	0 6.0	2.394 330	3 359	10 58.1
9	18 10 24.79	3 16.47	24 2 16.8	0 21.3	2.390 971	3 381	10 57.4
10	18 13 41.26	3 16.63	24 1 55.5	0 36.8	2.387 590	3 404	10 56.8
11	18 16 57.89	3 16.78	24 1 18.7	0 52.3	2.384 186	3 426	10 56.1
12	18 20 14.67	3 16.90	−24 0 26.4	1 7.7	2.380 760	3 449	10 55.5
13	18 23 31.57	3 17.02	23 59 18.7	1 23.2	2.377 311	3 470	10 54.8
14	18 26 48.59	3 17.12	23 57 55.5	1 38.8	2.373 841	3 492	10 54.1
15	18 30 5.71	3 17.19	23 56 16.7	1 54.3	2.370 349	3 512	10 53.5
16	18 33 22.90	3 17.26	23 54 22.4	2 9.8	2.366 837	3 532	10 52.8
17	18 36 40.16	3 17.30	23 52 12.6	2 25.4	2.363 305	3 551	10 52.2
18	18 39 57.46	3 17.34	−23 49 47.2	2 40.9	2.359 754	3 570	10 51.5
19	18 43 14.80	3 17.35	23 47 6.3	2 56.5	2.356 184	3 588	10 50.9
20	18 46 32.15	3 17.35	23 44 9.8	3 12.0	2.352 596	3 604	10 50.2
21	18 49 49.50	3 17.34	23 40 57.8	3 27.4	2.348 992	3 621	10 49.6
22	18 53 6.84	3 17.31	23 37 30.4	3 43.0	2.345 371	3 636	10 48.9
23	18 56 24.15	3 17.28	23 33 47.4	3 58.4	2.341 735	3 650	10 48.2
24	18 59 41.43	3 17.22	−23 29 49.0	4 13.8	2.338 085	3 665	10 47.6
25	19 2 58.65	3 17.17	23 25 35.2	4 29.2	2.334 420	3 678	10 46.9
26	19 6 15.82	3 17.09	23 21 6.0	4 44.5	2.330 742	3 692	10 46.3
27	19 9 32.91	3 17.00	23 16 21.5	4 59.8	2.327 050	3 704	10 45.6
28	19 12 49.91	3 16.91	23 11 21.7	5 15.0	2.323 346	3 716	10 45.0
29	19 16 6.82	3 16.80	23 6 6.7	5 30.2	2.319 630	3 728	10 44.3
30	19 19 23.62	3 16.68	−23 0 36.5	5 45.4	2.315 902	3 740	10 43.6
31	19 22 40.30	3 16.55	22 54 51.1	6 0.4	2.312 162	3 751	10 43.0
Febr. 1	19 25 56.85	3 16.41	22 48 50.7	6 15.4	2.308 411	3 763	10 42.3
2	19 29 13.26	3 16.26	22 42 35.3	6 30.3	2.304 648	3 774	10 41.6
3	19 32 29.52	3 16.09	22 36 5.0	6 45.2	2.300 874	3 785	10 41.0
4	19 35 45.61	3 15.91	22 29 19.8	6 59.9	2.297 089	3 796	10 40.3
5	19 39 1.52	3 15.72	−22 22 19.9	7 14.6	2.293 293	3 807	10 39.6
6	19 42 17.24	3 15.52	22 15 5.3	7 29.2	2.289 486	3 817	10 38.9
7	19 45 32.76	3 15.31	22 7 36.1	7 43.8	2.285 669	3 828	10 38.3
8	19 48 48.07	3 15.09	21 59 52.3	7 58.1	2.281 841	3 838	10 37.6
9	19 52 3.16	3 14.85	21 51 54.2	8 12.4	2.278 003	3 848	10 36.9
10	19 55 18.01		−21 43 41.8		2.274 155		10 36.2

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	19 55 18.01	3 14.61	−21 43 41.8	8 26.6	2.274 155	3 858	10 36.2
	11	19 58 32.62	3 14.34	21 35 15.2	8 40.7	2.270 297	3 868	10 35.5
	12	20 1 46.96	3 14.07	21 26 34.5	8 54.7	2.266 429	3 877	10 34.8
	13	20 5 1.03	3 13.79	21 17 39.8	9 8.5	2.262 552	3 885	10 34.0
	14	20 8 14.82	3 13.50	21 8 31.3	9 22.2	2.258 667	3 894	10 33.3
	15	20 11 28.32	3 13.19	20 59 9.1	9 35.8	2.254 773	3 901	10 32.6
	16	20 14 41.51	3 12.88	−20 49 33.3	9 49.2	2.250 872	3 908	10 31.9
	17	20 17 54.39	3 12.56	20 39 44.1	10 2.6	2.246 964	3 914	10 31.2
	18	20 21 6.95	3 12.23	20 29 41.5	10 15.8	2.243 050	3 919	10 30.4
	19	20 24 19.18	3 11.89	20 19 25.7	10 28.8	2.239 131	3 924	10 29.7
	20	20 27 31.07	3 11.56	20 8 56.9	10 41.8	2.235 207	3 928	10 28.9
	21	20 30 42.63	3 11.21	19 58 15.1	10 54.5	2.231 279	3 931	10 28.2
	22	20 33 53.84	3 10.87	−19 47 20.6	11 7.1	2.227 348	3 934	10 27.4
	23	20 37 4.71	3 10.52	19 36 13.5	11 19.6	2.223 414	3 937	10 26.7
	24	20 40 15.23	3 10.16	19 24 53.9	11 32.0	2.219 477	3 939	10 25.9
	25	20 43 25.39	3 9.80	19 13 21.9	11 44.1	2.215 538	3 941	10 25.1
	26	20 46 35.19	3 9.45	19 1 37.8	11 56.1	2.211 597	3 943	10 24.3
	27	20 49 44.64	3 9.08	18 49 41.7	12 8.1	2.207 654	3 945	10 23.6
	28	20 52 53.72	3 8.71	−18 37 33.6	12 19.7	2.203 709	3 946	10 22.8
März	1	20 56 2.43	3 8.35	18 25 13.9	12 31.3	2.199 763	3 947	10 22.0
	2	20 59 10.78	3 7.98	18 12 42.6	12 42.7	2.195 816	3 949	10 21.2
	3	21 2 18.76	3 7.61	17 59 59.9	12 54.0	2.191 867	3 950	10 20.3
	4	21 5 26.37	3 7.23	17 47 5.9	13 5.0	2.187 917	3 951	10 19.5
	5	21 8 33.60	3 6.86	17 34 0.9	13 15.9	2.183 966	3 953	10 18.7
	6	21 11 40.46	3 6.48	−17 20 45.0	13 26.7	2.180 013	3 954	10 17.9
	7	21 14 46.94	3 6.10	17 7 18.3	13 37.2	2.176 059	3 955	10 17.0
	8	21 17 53.04	3 5.72	16 53 41.1	13 47.7	2.172 104	3 956	10 16.2
	9	21 20 58.76	3 5.34	16 39 53.4	13 57.8	2.168 148	3 958	10 15.3
	10	21 24 4.10	3 4.95	16 25 55.6	14 7.8	2.164 190	3 959	10 14.5
	11	21 27 9.05	3 4.57	16 11 47.8	14 17.6	2.160 231	3 961	10 13.6
	12	21 30 13.62	3 4.17	−15 57 30.2	14 27.3	2.156 270	3 962	10 12.8
	13	21 33 17.79	3 3.78	15 43 2.9	14 36.8	2.152 308	3 962	10 11.9
	14	21 36 21.57	3 3.39	15 28 26.1	14 46.0	2.148 346	3 963	10 11.0
	15	21 39 24.96	3 3.00	15 13 40.1	14 55.0	2.144 383	3 964	10 10.1
	16	21 42 27.96	3 2.60	14 58 45.1	15 3.9	2.140 419	3 963	10 9.2
	17	21 45 30.56	3 2.20	14 43 41.2	15 12.6	2.136 456	3 963	10 8.3
	18	21 48 32.76	3 1.81	−14 28 28.6	15 21.1	2.132 493	3 961	10 7.4
	19	21 51 34.57	3 1.42	14 13 7.5	15 29.3	2.128 532	3 959	10 6.5
	20	21 54 35.99	3 1.04	13 57 38.2	15 37.5	2.124 573	3 957	10 5.6
	21	21 57 37.03	3 0.65	13 42 0.7	15 45.3	2.120 616	3 954	10 4.6
	22	22 0 37.68	3 0.27	13 26 15.4	15 53.0	2.116 662	3 951	10 3.7
	23	22 3 37.95		−13 10 22.4		2.112 711		10 2.8

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
März	23	22 3 37.95	2 59.89	−13 10 22.4	16 0.6	2.112 711	3 948	10 2.8
	24	22 6 37.84	2 59.53	12 54 21.8	16 8.0	2.108 763	3 944	10 1.8
	25	22 9 37.37	2 59.17	12 38 13.8	16 15.1	2.104 819	3 940	10 0.9
	26	22 12 36.54	2 58.80	12 21 58.7	16 22.0	2.100 879	3 937	9 59.9
	27	22 15 35.34	2 58.45	12 5 36.7	16 28.8	2.096 942	3 932	9 59.0
	28	22 18 33.79	2 58.10	11 49 7.9	16 35.5	2.093 010	3 929	9 58.0
	29	22 21 31.89	2 57.76	−11 32 32.4	16 41.8	2.089 081	3 926	9 57.0
	30	22 24 29.65	2 57.43	11 15 50.6	16 48.1	2.085 155	3 921	9 56.0
	31	22 27 27.08	2 57.09	10 59 2.5	16 54.1	2.081 234	3 918	9 55.0
April	1	22 30 24.17	2 56.77	10 42 8.4	16 59.9	2.077 316	3 915	9 54.0
	2	22 33 20.94	2 56.44	10 25 8.5	17 5.5	2.073 401	3 912	9 53.0
	3	22 36 17.38	2 56.14	10 8 3.0	17 11.1	2.069 489	3 909	9 52.0
	4	22 39 13.52	2 55.82	− 9 50 51.9	17 16.3	2.065 580	3 906	9 51.0
	5	22 42 9.34	2 55.52	9 33 35.6	17 21.4	2.061 674	3 903	9 50.0
	6	22 45 4.86	2 55.22	9 16 14.2	17 26.2	2.057 771	3 902	9 49.0
	7	22 48 0.08	2 54.92	8 58 48.0	17 31.0	2.053 869	3 900	9 48.0
	8	22 50 55.00	2 54.63	8 41 17.0	17 35.4	2.049 969	3 898	9 47.0
	9	22 53 49.63	2 54.35	8 23 41.6	17 39.6	2.046 071	3 896	9 45.9
	10	22 56 43.98	2 54.06	− 8 6 2.0	17 43.8	2.042 175	3 895	9 44.9
	11	22 59 38.04	2 53.77	7 48 18.2	17 47.6	2.038 280	3 894	9 43.8
	12	23 2 31.81	2 53.50	7 30 30.6	17 51.2	2.034 386	3 892	9 42.8
	13	23 5 25.31	2 53.22	7 12 39.4	17 54.6	2.030 494	3 890	9 41.7
	14	23 8 18.53	2 52.96	6 54 44.8	17 57.9	2.026 604	3 889	9 40.7
	15	23 11 11.49	2 52.70	6 36 46.9	18 0.9	2.022 715	3 886	9 39.6
	16	23 14 4.19	2 52.43	− 6 18 46.0	18 3.7	2.018 829	3 883	9 38.5
	17	23 16 56.62	2 52.19	6 0 42.3	18 6.3	2.014 946	3 880	9 37.5
	18	23 19 48.81	2 51.95	5 42 36.0	18 8.8	2.011 066	3 877	9 36.4
	19	23 22 40.76	2 51.71	5 24 27.2	18 11.0	2.007 189	3 873	9 35.3
	20	23 25 32.47	2 51.48	5 6 16.2	18 13.1	2.003 316	3 870	9 34.2
	21	23 28 23.95	2 51.27	4 48 3.1	18 15.0	1.999 446	3 866	9 33.2
	22	23 31 15.22	2 51.06	− 4 29 48.1	18 16.7	1.995 580	3 863	9 32.1
	23	23 34 6.28	2 50.86	4 11 31.4	18 18.2	1.991 717	3 859	9 31.0
	24	23 36 57.14	2 50.66	3 53 13.2	18 19.5	1.987 858	3 856	9 29.9
	25	23 39 47.80	2 50.48	3 34 53.7	18 20.7	1.984 002	3 853	9 28.8
	26	23 42 38.28	2 50.31	3 16 33.0	18 21.7	1.980 149	3 849	9 27.7
	27	23 45 28.59	2 50.14	2 58 11.3	18 22.5	1.976 300	3 847	9 26.6
	28	23 48 18.73	2 49.98	− 2 39 48.8	18 23.1	1.972 453	3 845	9 25.5
	29	23 51 8.71	2 49.82	2 21 25.7	18 23.5	1.968 608	3 842	9 24.4
	30	23 53 58.53	2 49.69	2 3 2.2	18 23.8	1.964 766	3 841	9 23.3
Mai	1	23 56 48.22	2 49.55	1 44 38.4	18 23.9	1.960 925	3 839	9 22.1
	2	23 59 37.77	2 49.41	1 26 14.5	18 23.8	1.957 086	3 839	9 21.0
	3	0 2 27.18		− 1 7 50.7		1.953 247		9 19.9

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Mai 3	0 2 27.18	2 49.30	− 1 7 50.7	18 23.5	1.953 247	3 838	9 19.9
4	0 5 16.48	2 49.18	0 49 27.2	18 23.1	1.949 409	3 838	9 18.8
5	0 8 5.66	2 49.07	0 31 4.1	18 22.4	1.945 571	3 839	9 17.7
6	0 10 54.73	2 48.97	− 0 12 41.7	18 21.6	1.941 732	3 840	9 16.5
7	0 13 43.70	2 48.86	+ 0 5 39.9	18 20.5	1.937 892	3 841	9 15.4
8	0 16 32.56	2 48.77	0 24 0.4	18 19.3	1.934 051	3 843	9 14.3
9	0 19 21.33	2 48.68	+ 0 42 19.7	18 17.9	1.930 208	3 845	9 13.2
10	0 22 10.01	2 48.59	1 0 37.6	18 16.3	1.926 363	3 848	9 12.0
11	0 24 58.60	2 48.51	1 18 53.9	18 14.5	1.922 515	3 850	9 10.9
12	0 27 47.11	2 48.42	1 37 8.4	18 12.4	1.918 665	3 852	9 9.8
13	0 30 35.53	2 48.35	1 55 20.8	18 10.3	1.914 813	3 854	9 8.6
14	0 33 23.88	2 48.28	2 13 31.1	18 7.9	1.910 959	3 856	9 7.5
15	0 36 12.16	2 48.22	+ 2 31 39.0	18 5.4	1.907 103	3 858	9 6.4
16	0 39 0.38	2 48.16	2 49 44.4	18 2.6	1.903 245	3 860	9 5.2
17	0 41 48.54	2 48.11	3 7 47.0	17 59.7	1.899 385	3 861	9 4.1
18	0 44 36.65	2 48.07	3 25 46.7	17 56.6	1.895 524	3 863	9 2.9
19	0 47 24.72	2 48.04	3 43 43.3	17 53.4	1.891 661	3 865	9 1.8
20	0 50 12.76	2 48.00	4 1 36.7	17 50.0	1.887 796	3 867	9 0.7
21	0 53 0.76	2 47.99	+ 4 19 26.7	17 46.5	1.883 929	3 869	8 59.5
22	0 55 48.75	2 47.96	4 37 13.2	17 42.8	1.880 060	3 872	8 58.4
23	0 58 36.71	2 47.96	4 54 56.0	17 38.8	1.876 188	3 874	8 57.2
24	1 1 24.67	2 47.97	5 12 34.8	17 34.9	1.872 314	3 877	8 56.1
25	1 4 12.64	2 47.96	5 30 9.7	17 30.7	1.868 437	3 880	8 54.9
26	1 7 0.60	2 47.98	5 47 40.4	17 26.4	1.864 557	3 884	8 53.8
27	1 9 48.58	2 48.01	+ 6 5 6.8	17 21.8	1.860 673	3 888	8 52.6
28	1 12 36.59	2 48.02	6 22 28.6	17 17.2	1.856 785	3 893	8 51.5
29	1 15 24.61	2 48.06	6 39 45.8	17 12.5	1.852 892	3 898	8 50.4
30	1 18 12.67	2 48.09	6 56 58.3	17 7.5	1.848 994	3 904	8 49.2
31	1 21 0.76	2 48.13	7 14 5.8	17 2.4	1.845 090	3 910	8 48.1
Juni 1	1 23 48.89	2 48.18	7 31 8.2	16 57.1	1.841 180	3 917	8 47.0
2	1 26 37.07	2 48.22	+ 7 48 5.3	16 51.8	1.837 263	3 925	8 45.8
3	1 29 25.29	2 48.28	8 4 57.1	16 46.2	1.833 338	3 934	8 44.7
4	1 32 13.57	2 48.33	8 21 43.3	16 40.4	1.829 404	3 942	8 43.5
5	1 35 1.90	2 48.38	8 38 23.7	16 34.6	1.825 462	3 951	8 42.4
6	1 37 50.28	2 48.43	8 54 58.3	16 28.5	1.821 511	3 962	8 41.3
7	1 40 38.71	2 48.50	9 11 26.8	16 22.2	1.817 549	3 971	8 40.1
8	1 43 27.21	2 48.54	+ 9 27 49.0	16 15.9	1.813 578	3 982	8 39.0
9	1 46 15.75	2 48.60	9 44 4.9	16 9.3	1.809 596	3 993	8 37.9
10	1 49 4.35	2 48.66	10 0 14.2	16 2.6	1.805 603	4 003	8 36.7
11	1 51 53.01	2 48.72	10 16 16.8	15 55.7	1.801 600	4 014	8 35.6
12	1 54 41.73	2 48.77	10 32 12.5	15 48.7	1.797 586	4 025	8 34.5
13	1 57 30.50		+10 48 1.2		1.793 561		8 33.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Juni 13	1 57 30.50	2 48.83	+10 48 1.2	15 41.5	1.793 561	4 035	8 33.4
14	2 0 19.33	2 48.90	11 3 42.7	15 34.3	1.789 526	4 046	8 32.2
15	2 3 8.23	2 48.95	11 19 17.0	15 26.8	1.785 480	4 057	8 31.1
16	2 5 57.18	2 49.03	11 34 43.8	15 19.2	1.781 423	4 068	8 30.0
17	2 8 46.21	2 49.09	11 50 3.0	15 11.5	1.777 355	4 078	8 28.8
18	2 11 35.30	2 49.17	12 5 14.5	15 3.7	1.773 277	4 090	8 27.7
19	2 14 24.47	2 49.24	+12 20 18.2	14 55.8	1.769 187	4 102	8 26.6
20	2 17 13.71	2 49.31	12 35 14.0	14 47.8	1.765 085	4 114	8 25.5
21	2 20 3.02	2 49.39	12 50 1.8	14 39.5	1.760 971	4 125	8 24.4
22	2 22 52.41	2 49.47	13 4 41.3	14 31.2	1.756 846	4 138	8 23.2
23	2 25 41.88	2 49.55	13 19 12.5	14 22.9	1.752 708	4 151	8 22.1
24	2 28 31.43	2 49.64	13 33 35.4	14 14.3	1.748 557	4 164	8 21.0
25	2 31 21.07	2 49.72	+13 47 49.7	14 5.8	1.744 393	4 178	8 19.9
26	2 34 10.79	2 49.80	14 1 55.5	13 57.0	1.740 215	4 192	8 18.8
27	2 37 0.59	2 49.88	14 15 52.5	13 48.2	1.736 023	4 208	8 17.7
28	2 39 50.47	2 49.97	14 29 40.7	13 39.2	1.731 815	4 223	8 16.6
29	2 42 40.44	2 50.05	14 43 19.9	13 30.2	1.727 592	4 240	8 15.4
30	2 45 30.49	2 50.13	14 56 50.1	13 21.0	1.723 352	4 257	8 14.3
Juli 1	2 48 20.62	2 50.21	+15 10 11.1	13 11.8	1.719 095	4 275	8 13.2
2	2 51 10.83	2 50.28	15 23 22.9	13 2.4	1.714 820	4 293	8 12.1
3	2 54 1.11	2 50.34	15 36 25.3	12 52.9	1.710 527	4 312	8 11.0
4	2 56 51.45	2 50.41	15 49 18.2	12 43.4	1.706 215	4 332	8 9.9
5	2 59 41.86	2 50.47	16 2 1.6	12 33.6	1.701 883	4 352	8 8.8
6	3 2 32.33	2 50.51	16 14 35.2	12 23.8	1.697 531	4 372	8 7.7
7	3 5 22.84	2 50.55	+16 26 59.0	12 13.9	1.693 159	4 393	8 6.6
8	3 8 13.39	2 50.59	16 39 12.9	12 3.8	1.688 766	4 413	8 5.5
9	3 11 3.98	2 50.62	16 51 16.7	11 53.7	1.684 353	4 435	8 4.4
10	3 13 54.60	2 50.64	17 3 10.4	11 43.5	1.679 918	4 455	8 3.3
11	3 16 45.24	2 50.66	17 14 53.9	11 33.2	1.675 463	4 476	8 2.2
12	3 19 35.90	2 50.67	17 26 27.1	11 22.8	1.670 987	4 497	8 1.1
13	3 22 26.57	2 50.68	+17 37 49.9	11 12.4	1.666 490	4 519	8 0.0
14	3 25 17.25	2 50.67	17 49 2.3	11 1.8	1.661 971	4 539	7 58.9
15	3 28 7.92	2 50.67	18 0 4.1	10 51.2	1.657 432	4 560	7 57.9
16	3 30 58.59	2 50.66	18 10 55.3	10 40.6	1.652 872	4 581	7 56.8
17	3 33 49.25	2 50.65	18 21 35.9	10 29.8	1.648 291	4 603	7 55.7
18	3 36 39.90	2 50.63	18 32 5.7	10 19.1	1.643 688	4 624	7 54.6
19	3 39 30.53	2 50.61	+18 42 24.8	10 8.3	1.639 064	4 646	7 53.5
20	3 42 21.14	2 50.57	18 52 33.1	9 57.5	1.634 418	4 669	7 52.4
21	3 45 11.71	2 50.54	19 2 30.6	9 46.5	1.629 749	4 690	7 51.3
22	3 48 2.25	2 50.50	19 12 17.1	9 35.6	1.625 059	4 714	7 50.2
23	3 50 52.75	2 50.45	19 21 52.7	9 24.7	1.620 345	4 737	7 49.1
24	3 53 43.20		+19 31 17.4		1.615 608		7 48.0

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Juli	24	3 53 43.20	2 50.40	+19 31 17.4	9 13.6	1.615 608	4 761	7 48.0
	25	3 56 33.60	2 50.34	19 40 31.0	9 2.6	1.610 847	4 784	7 46.9
	26	3 59 23.94	2 50.27	19 49 33.6	8 51.5	1.606 063	4 810	7 45.8
	27	4 2 14.21	2 50.20	19 58 25.1	8 40.5	1.601 253	4 835	7 44.7
	28	4 5 4.41	2 50.12	20 7 5.6	8 29.3	1.596 418	4 862	7 43.5
	29	4 7 54.53	2 50.02	20 15 34.9	8 18.2	1.591 556	4 888	7 42.4
	30	4 10 44.55	2 49.91	+20 23 53.1	8 7.1	1.586 668	4 916	7 41.3
	31	4 13 34.46	2 49.80	20 32 0.2	7 55.8	1.581 752	4 944	7 40.2
Aug.	1	4 16 24.26	2 49.67	20 39 56.0	7 44.6	1.576 808	4 972	7 39.1
	2	4 19 13.93	2 49.52	20 47 40.6	7 33.4	1.571 836	5 001	7 38.0
	3	4 22 3.45	2 49.36	20 55 14.0	7 22.2	1.566 835	5 030	7 36.9
	4	4 24 52.81	2 49.19	21 2 36.2	7 10.8	1.561 805	5 060	7 35.7
	5	4 27 42.00	2 49.01	+21 9 47.0	6 59.5	1.556 745	5 089	7 34.6
	6	4 30 31.01	2 48.80	21 16 46.5	6 48.3	1.551 656	5 118	7 33.5
	7	4 33 19.81	2 48.58	21 23 34.8	6 37.0	1.546 538	5 148	7 32.4
	8	4 36 8.39	2 48.36	21 30 11.8	6 25.7	1.541 390	5 177	7 31.2
	9	4 38 56.75	2 48.12	21 36 37.5	6 14.4	1.536 213	5 207	7 30.1
	10	4 41 44.87	2 47.86	21 42 51.9	6 3.2	1.531 006	5 236	7 29.0
	11	4 44 32.73	2 47.59	+21 48 55.1	5 51.9	1.525 770	5 265	7 27.8
	12	4 47 20.32	2 47.32	21 54 47.0	5 40.8	1.520 505	5 294	7 26.7
	13	4 50 7.64	2 47.03	22 0 27.8	5 29.6	1.515 211	5 323	7 25.5
	14	4 52 54.67	2 46.72	22 5 57.4	5 18.5	1.509 888	5 352	7 24.3
	15	4 55 41.39	2 46.41	22 11 15.9	5 7.4	1.504 536	5 382	7 23.2
	16	4 58 27.80	2 46.09	22 16 23.3	4 56.4	1.499 154	5 410	7 22.0
	17	5 1 13.89	2 45.75	+22 21 19.7	4 45.4	1.493 744	5 440	7 20.8
	18	5 3 59.64	2 45.40	22 26 5.1	4 34.5	1.488 304	5 469	7 19.7
	19	5 6 45.04	2 45.05	22 30 39.6	4 23.7	1.482 835	5 499	7 18.5
	20	5 9 30.09	2 44.67	22 35 3.3	4 12.9	1.477 336	5 528	7 17.3
	21	5 12 14.76	2 44.29	22 39 16.2	4 2.1	1.471 808	5 558	7 16.1
	22	5 14 59.05	2 43.90	22 43 18.3	3 51.5	1.466 250	5 589	7 14.9
	23	5 17 42.95	2 43.51	+22 47 9.8	3 41.0	1.460 661	5 619	7 13.7
	24	5 20 26.46	2 43.09	22 50 50.8	3 30.4	1.455 042	5 650	7 12.5
	25	5 23 9.55	2 42.66	22 54 21.2	3 20.0	1.449 392	5 682	7 11.2
	26	5 25 52.21	2 42.21	22 57 41.2	3 9.7	1.443 710	5 714	7 10.0
	27	5 28 34.42	2 41.75	23 0 50.9	2 59.5	1.437 996	5 746	7 8.8
	28	5 31 16.17	2 41.27	23 3 50.4	2 49.2	1.432 250	5 780	7 7.5
	29	5 33 57.44	2 40.78	+23 6 39.6	2 39.2	1.426 470	5 813	7 6.3
	30	5 36 38.22	2 40.27	23 9 18.8	2 29.2	1.420 657	5 846	7 5.0
	31	5 39 18.49	2 39.73	23 11 48.0	2 19.3	1.414 811	5 880	7 3.7
Sept.	1	5 41 58.22	2 39.18	23 14 7.3	2 9.5	1.408 931	5 914	7 2.4
	2	5 44 37.40	2 38.60	23 16 16.8	1 59.8	1.403 017	5 947	7 1.1
	3	5 47 16.00		+23 18 16.6		1.397 070		6 59.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	5 47 16.00	2 38.02	+23 18 16.6	1 50.2	1.397 070	5 980	6 59.8
4	5 49 54.02	2 37.40	23 20 6.8	1 40.7	1.391 090	6 014	6 58.5
5	5 52 31.42	2 36.78	23 21 47.5	1 31.4	1.385 076	6 046	6 57.2
6	5 55 8.20	2 36.14	23 23 18.9	1 22.1	1.379 030	6 079	6 55.9
7	5 57 44.34	2 35.47	23 24 41.0	1 13.0	1.372 951	6 111	6 54.5
8	6 0 19.81	2 34.80	23 25 54.0	1 4.1	1.366 840	6 143	6 53.2
9	6 2 54.61	2 34.10	+23 26 58.1	0 55.2	1.360 697	6 174	6 51.8
10	6 5 28.71	2 33.39	23 27 53.3	0 46.5	1.354 523	6 206	6 50.4
11	6 8 2.10	2 32.67	23 28 39.8	0 38.0	1.348 317	6 237	6 49.0
12	6 10 34.77	2 31.93	23 29 17.8	0 29.6	1.342 080	6 268	6 47.6
13	6 13 6.70	2 31.17	23 29 47.4	0 21.4	1.335 812	6 297	6 46.2
14	6 15 37.87	2 30.40	23 30 8.8	0 13.3	1.329 515	6 328	6 44.8
15	6 18 8.27	2 29.63	+23 30 22.1	0 5.3	1.323 187	6 358	6 43.4
16	6 20 37.90	2 28.82	23 30 27.4	0 2.3	1.316 829	6 387	6 41.9
17	6 23 6.72	2 28.02	23 30 25.1	0 10.0	1.310 442	6 417	6 40.5
18	6 25 34.74	2 27.19	23 30 15.1	0 17.4	1.304 025	6 446	6 39.0
19	6 28 1.93	2 26.36	23 29 57.7	0 24.6	1.297 579	6 475	6 37.5
20	6 30 28.29	2 25.50	23 29 33.1	0 31.6	1.291 104	6 504	6 36.0
21	6 32 53.79	2 24.64	+23 29 1.5	0 38.6	1.284 600	6 534	6 34.5
22	6 35 18.43	2 23.76	23 28 22.9	0 45.3	1.278 066	6 563	6 32.9
23	6 37 42.19	2 22.85	23 27 37.6	0 51.8	1.271 503	6 593	6 31.4
24	6 40 5.04	2 21.94	23 26 45.8	0 58.1	1.264 910	6 622	6 29.8
25	6 42 26.98	2 21.00	23 25 47.7	1 4.2	1.258 288	6 653	6 28.2
26	6 44 47.98	2 20.04	23 24 43.5	1 10.2	1.251 635	6 682	6 26.6
27	6 47 8.02	2 19.06	+23 23 33.3	1 15.9	1.244 953	6 712	6 25.0
28	6 49 27.08	2 18.05	23 22 17.4	1 21.5	1.238 241	6 741	6 23.4
29	6 51 45.13	2 17.02	23 20 55.9	1 26.8	1.231 500	6 770	6 21.8
30	6 54 2.15	2 15.97	23 19 29.1	1 32.0	1.224 730	6 798	6 20.1
Okt. 1	6 56 18.12	2 14.89	23 17 57.1	1 36.8	1.217 932	6 827	6 18.4
2	6 58 33.01	2 13.79	23 16 20.3	1 41.5	1.211 105	6 853	6 16.7
3	7 0 46.80	2 12.66	+23 14 38.8	1 46.0	1.204 252	6 880	6 15.0
4	7 2 59.46	2 11.52	23 12 52.8	1 50.2	1.197 372	6 906	6 13.3
5	7 5 10.98	2 10.36	23 11 2.6	1 54.3	1.190 466	6 931	6 11.5
6	7 7 21.34	2 9.16	23 9 8.3	1 58.0	1.183 535	6 955	6 9.7
7	7 9 30.50	2 7.96	23 7 10.3	2 1.5	1.176 580	6 978	6 7.9
8	7 11 38.46	2 6.72	23 5 8.8	2 4.8	1.169 602	7 001	6 6.1
9	7 13 45.18	2 5.47	+23 3 4.0	2 7.9	1.162 601	7 022	6 4.3
10	7 15 50.65	2 4.20	23 0 56.1	2 10.6	1.155 579	7 043	6 2.5
11	7 17 54.85	2 2.91	22 58 45.5	2 13.2	1.148 536	7 063	6 0.6
12	7 19 57.76	2 1.59	22 56 32.3	2 15.5	1.141 473	7 081	5 58.7
13	7 21 59.35	2 0.26	22 54 16.8	2 17.4	1.134 392	7 099	5 56.8
14	7 23 59.61		+22 51 59.4		1.127 293		5 54.8

Tag		0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Δ	Diff.	Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Okt.	14	7 23 59.61	1 58.90	+22 51 59.4	2 19.3	1.127 293	7 117	5 54.8
	15	7 25 58.51	1 57.53	22 49 40.1	2 20.8	1.120 176	7 133	5 52.9
	16	7 27 56.04	1 56.13	22 47 19.3	2 22.1	1.113 043	7 149	5 50.9
	17	7 29 52.17	1 54.72	22 44 57.2	2 23.0	1.105 894	7 163	5 48.9
	18	7 31 46.89	1 53.28	22 42 34.2	2 23.8	1.098 731	7 177	5 46.8
	19	7 33 40.17	1 51.83	22 40 10.4	2 24.2	1.091 554	7 191	5 44.8
	20	7 35 32.00	1 50.34	+22 37 46.2	2 24.4	1.084 363	7 204	5 42.7
	21	7 37 22.34	1 48.84	22 35 21.8	2 24.3	1.077 159	7 216	5 40.6
	22	7 39 11.18	1 47.30	22 32 57.5	2 23.9	1.069 943	7 228	5 38.5
	23	7 40 58.48	1 45.74	22 30 33.6	2 23.3	1.062 715	7 239	5 36.3
	24	7 42 44.22	1 44.13	22 28 10.3	2 22.3	1.055 476	7 249	5 34.1
	25	7 44 28.35	1 42.49	22 25 48.0	2 21.1	1.048 227	7 259	5 31.9
	26	7 46 10.84	1 40.84	+22 23 26.9	2 19.6	1.040 968	7 267	5 29.7
	27	7 47 51.68	1 39.13	22 21 7.3	2 17.6	1.033 701	7 274	5 27.4
	28	7 49 30.81	1 37.38	22 18 49.7	2 15.5	1.026 427	7 280	5 25.1
	29	7 51 8.19	1 35.61	22 16 34.2	2 13.1	1.019 147	7 285	5 22.8
	30	7 52 43.80	1 33.79	22 14 21.1	2 10.2	1.011 862	7 287	5 20.4
	31	7 54 17.59	1 31.93	22 12 10.9	2 7.1	1.004 575	7 288	5 18.0
Nov.	1	7 55 49.52	1 30.04	+22 10 3.8	2 3.7	0.997 287	7 288	5 15.6
	2	7 57 19.56	1 28.12	22 8 0.1	2 0.0	0.989 999	7 285	5 13.2
	3	7 58 47.68	1 26.15	22 6 0.1	1 55.9	0.982 714	7 281	5 10.7
	4	8 0 13.83	1 24.15	22 4 4.2	1 51.5	0.975 433	7 275	5 8.2
	5	8 1 37.98	1 22.11	22 2 12.7	1 46.8	0.968 158	7 267	5 5.7
	6	8 3 0.09	1 20.03	22 0 25.9	1 41.8	0.960 891	7 257	5 3.1
	7	8 4 20.12	1 17.92	+21 58 44.1	1 36.4	0.953 634	7 245	5 0.5
	8	8 5 38.04	1 15.77	21 57 7.7	1 30.8	0.946 389	7 231	4 57.8
	9	8 6 53.81	1 13.57	21 55 36.9	1 24.8	0.939 158	7 214	4 55.1
	10	8 8 7.38	1 11.35	21 54 12.1	1 18.5	0.931 944	7 196	4 52.4
	11	8 9 18.73	1 9.09	21 52 53.6	1 11.9	0.924 748	7 175	4 49.7
	12	8 10 27.82	1 6.79	21 51 41.7	1 5.0	0.917 573	7 153	4 46.9
	13	8 11 34.61	1 4.44	+21 50 36.7	0 57.7	0.910 420	7 128	4 44.0
	14	8 12 39.05	1 2.07	21 49 39.0	0 50.3	0.903 292	7 101	4 41.2
	15	8 13 41.12	0 59.66	21 48 48.7	0 42.4	0.896 191	7 073	4 38.3
	16	8 14 40.78	0 57.19	21 48 6.3	0 34.4	0.889 118	7 041	4 35.3
	17	8 15 37.97	0 54.69	21 47 31.9	0 26.0	0.882 077	7 009	4 32.3
	18	8 16 32.66	0 52.15	21 47 5.9	0 17.3	0.875 068	6 973	4 29.3
	19	8 17 24.81	0 49.56	+21 46 48.6	0 8.3	0.868 095	6 936	4 26.2
	20	8 18 14.37	0 46.91	21 46 40.3	0 1.0	0.861 159	6 897	4 23.1
	21	8 19 1.28	0 44.22	21 46 41.3	0 10.5	0.854 262	6 855	4 19.9
	22	8 19 45.50	0 41.47	21 46 51.8	0 20.4	0.847 407	6 811	4 16.7
	23	8 20 26.97	0 38.66	21 47 12.2	0 30.4	0.840 596	6 763	4 13.5
	24	8 21 5.63		+21 47 42.6		0.833 833		4 10.2

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	m s	° ′ ″	′ ″			h m
Nov.	24	8 21 5.63	0 35.80	+21 47 42.6	0 40.8	0.833 833	6 714	4 10.2
	25	8 21 41.43	0 32.88	21 48 23.4	0 51.4	0.827 119	6 661	4 6.8
	26	8 22 14.31	0 29.91	21 49 14.8	1 2.3	0.820 458	6 604	4 3.4
	27	8 22 44.22	0 26.88	21 50 17.1	1 13.4	0.813 854	6 544	4 0.0
	28	8 23 11.10	0 23.81	21 51 30.5	1 24.8	0.807 310	6 481	3 56.5
	29	8 23 34.91	0 20.67	21 52 55.3	1 36.2	0.800 829	6 414	3 53.0
	30	8 23 55.58	0 17.50	+21 54 31.5	1 47.8	0.794 415	6 343	3 49.4
Dez.	1	8 24 13.08	0 14.27	21 56 19.3	1 59.7	0.788 072	6 269	3 45.7
	2	8 24 27.35	0 10.99	21 58 19.0	2 11.6	0.781 803	6 190	3 42.0
	3	8 24 38.34	0 7.68	22 0 30.6	2 23.6	0.775 613	6 107	3 38.2
	4	8 24 46.02	0 4.33	22 2 54.2	2 35.7	0.769 506	6 021	3 34.4
	5	8 24 50.35	0 0.93	22 5 29.9	2 47.9	0.763 485	5 930	3 30.6
	6	8 24 51.28	0 2.49	+22 8 17.8	2 59.9	0.757 555	5 835	3 26.6
	7	8 24 48.79	0 5.94	22 11 17.7	3 12.1	0.751 720	5 736	3 22.6
	8	8 24 42.85	0 9.43	22 14 29.8	3 24.2	0.745 984	5 633	3 18.6
	9	8 24 33.42	0 12.94	22 17 54.0	3 36.1	0.740 351	5 525	3 14.5
	10	8 24 20.48	0 16.45	22 21 30.1	3 47.9	0.734 826	5 414	3 10.4
	11	8 24 4.03	0 20.00	22 25 18.0	3 59.5	0.729 412	5 298	3 6.2
	12	8 23 44.03	0 23.54	+22 29 17.5	4 11.1	0.724 114	5 178	3 1.9
	13	8 23 20.49	0 27.09	22 33 28.6	4 22.2	0.718 936	5 054	2 57.6
	14	8 22 53.40	0 30.65	22 37 50.8	4 33.1	0.713 882	4 926	2 53.2
	15	8 22 22.75	0 34.21	22 42 23.9	4 43.7	0.708 956	4 793	2 48.7
	16	8 21 48.54	0 37.75	22 47 7.6	4 54.0	0.704 163	4 658	2 44.2
	17	8 21 10.79	0 41.30	22 52 1.6	5 3.9	0.699 505	4 517	2 39.6
	18	8 20 29.49	0 44.83	+22 57 5.5	5 13.3	0.694 988	4 374	2 35.0
	19	8 19 44.66	0 48.35	23 2 18.8	5 22.3	0.690 614	4 225	2 30.3
	20	8 18 56.31	0 51.83	23 7 41.1	5 30.6	0.686 389	4 073	2 25.6
	21	8 18 4.48	0 55.30	23 13 11.7	5 38.7	0.682 316	3 916	2 20.8
	22	8 17 9.18	0 58.73	23 18 50.4	5 46.0	0.678 400	3 755	2 16.0
	23	8 16 10.45	1 2.11	23 24 36.4	5 52.7	0.674 645	3 589	2 11.1
	24	8 15 8.34	1 5.43	+23 30 29.1	5 58.7	0.671 056	3 419	2 6.1
	25	8 14 2.91	1 8.69	23 36 27.8	6 4.0	0.667 637	3 244	2 1.1
	26	8 12 54.22	1 11.86	23 42 31.8	6 8.5	0.664 393	3 065	1 56.0
	27	8 11 42.36	1 14.96	23 48 40.3	6 12.3	0.661 328	2 882	1 50.9
	28	8 10 27.40	1 17.94	23 54 52.6	6 15.2	0.658 446	2 694	1 45.7
	29	8 9 9.46	1 20.82	24 1 7.8	6 17.3	0.655 752	2 502	1 40.5
	30	8 7 48.64	1 23.57	+24 7 25.1	6 18.4	0.653 250	2 306	1 35.2
	31	8 6 25.07	1 26.19	24 13 43.5	6 18.7	0.650 944	2 107	1 29.9
	32	8 4 58.88		+24 20 2.2		0.648 837		1 24.5

Jupiter 1945

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	′ ″			h m
Jan.	0	11 51 57.96	8.61	+2 15 26.0	0 37.8	5.137 388	15 627	5 14.0
	1	11 52 6.57	7.94	2 14 48.2	0 33.2	5.121 761	15 567	5 10.2
	2	11 52 14.51	7.25	2 14 15.0	0 28.8	5.106 194	15 504	5 6.4
	3	11 52 21.76	6.56	2 13 46.2	0 24.4	5.090 690	15 434	5 2.6
	4	11 52 28.32	5.87	2 13 21.8	0 19.8	5.075 256	15 360	4 58.7
	5	11 52 34.19	5.17	2 13 2.0	0 15.2	5.059 896	15 283	4 54.9
	6	11 52 39.36	4.48	+2 12 46.8	0 10.7	5.044 613	15 199	4 51.1
	7	11 52 43.84	3.78	2 12 36.1	0 6.1	5.029 414	15 110	4 47.2
	8	11 52 47.62	3.06	2 12 30.0	0 1.6	5.014 304	15 019	4 43.3
	9	11 52 50.68	2.36	2 12 28.4	0 3.1	4.999 285	14 919	4 39.4
	10	11 52 53.04	1.65	2 12 31.5	0 7.6	4.984 366	14 816	4 35.5
	11	11 52 54.69	0.94	2 12 39.1	0 12.2	4.969 550	14 707	4 31.6
	12	11 52 55.63	0.23	+2 12 51.3	0 16.9	4.954 843	14 592	4 27.7
	13	11 52 55.86	0.48	2 13 8.2	0 21.4	4.940 251	14 473	4 23.8
	14	11 52 55.38	1.20	2 13 29.6	0 26.0	4.925 778	14 349	4 19.8
	15	11 52 54.18	1.91	2 13 55.6	0 30.7	4.911 429	14 219	4 15.9
	16	11 52 52.27	2.63	2 14 26.3	0 35.2	4.897 210	14 083	4 11.9
	17	11 52 49.64	3.33	2 15 1.5	0 39.8	4.883 127	13 942	4 7.9
	18	11 52 46.31	4.04	+2 15 41.3	0 44.3	4.869 185	13 797	4 3.9
	19	11 52 42.27	4.74	2 16 25.6	0 48.9	4.855 388	13 646	3 59.9
	20	11 52 37.53	5.45	2 17 14.5	0 53.3	4.841 742	13 491	3 55.9
	21	11 52 32.08	6.15	2 18 7.8	0 57.8	4.828 251	13 330	3 51.9
	22	11 52 25.93	6.84	2 19 5.6	1 2.2	4.814 921	13 166	3 47.9
	23	11 52 19.09	7.53	2 20 7.8	1 6.6	4.801 755	12 996	3 43.8
	24	11 52 11.56	8.23	+2 21 14.4	1 10.9	4.788 759	12 824	3 39.8
	25	11 52 3.33	8.90	2 22 25.3	1 15.3	4.775 935	12 644	3 35.7
	26	11 51 54.43	9.59	2 23 40.6	1 19.6	4.763 291	12 462	3 31.6
	27	11 51 44.84	10.26	2 25 0.2	1 23.8	4.750 829	12 275	3 27.5
	28	11 51 34.58	10.93	2 26 24.0	1 28.1	4.738 554	12 084	3 23.4
	29	11 51 23.65	11.60	2 27 52.1	1 32.2	4.726 470	11 888	3 19.3
	30	11 51 12.05	12.26	+2 29 24.3	1 36.3	4.714 582	11 688	3 15.2
	31	11 50 59.79	12.92	2 31 0.6	1 40.4	4.702 894	11 484	3 11.1
Febr.	1	11 50 46.87	13.56	2 32 41.0	1 44.4	4.691 410	11 274	3 6.9
	2	11 50 33.31	14.20	2 34 25.4	1 48.4	4.680 136	11 060	3 2.7
	3	11 50 19.11	14.85	2 36 13.8	1 52.4	4.669 076	10 843	2 58.6
	4	11 50 4.26	15.46	2 38 6.2	1 56.2	4.658 233	10 620	2 54.4
	5	11 49 48.80	16.09	+2 40 2.4	1 59.9	4.647 613	10 393	2 50.2
	6	11 49 32.71	16.70	2 42 2.3	2 3.7	4.637 220	10 161	2 46.0
	7	11 49 16.01	17.30	2 44 6.0	2 7.3	4.627 059	9 926	2 41.8
	8	11 48 58.71	17.89	2 46 13.3	2 11.0	4.617 133	9 685	2 37.6
	9	11 48 40.82	18.47	2 48 24.3	2 14.4	4.607 448	9 440	2 33.4
	10	11 48 22.35		+2 50 38.7		4.598 008		2 29.1

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s		° ′ ″	′ ″			h m
Febr. 10	11 48 22.35	19.04	+2 50 38.7	2 17.8	4.598 008	9 191	2 29.1
11	11 48 3.31	19.59	2 52 56.5	2 21.2	4.588 817	8 939	2 24.9
12	11 47 43.72	20.15	2 55 17.7	2 24.4	4.579 878	8 681	2 20.6
13	11 47 23.57	20.67	2 57 42.1	2 27.5	4.571 197	8 419	2 16.3
14	11 47 2.90	21.18	3 0 9.6	2 30.6	4.562 778	8 154	2 12.1
15	11 46 41.72	21.69	3 2 40.2	2 33.5	4.554 624	7 886	2 7.8
16	11 46 20.03	22.18	+3 5 13.7	2 36.3	4.546 738	7 614	2 3.5
17	11 45 57.85	22.64	3 7 50.0	2 39.1	4.539 124	7 340	1 59.2
18	11 45 35.21	23.10	3 10 29.1	2 41.6	4.531 784	7 062	1 54.9
19	11 45 12.11	23.53	3 13 10.7	2 44.1	4.524 722	6 781	1 50.6
20	11 44 48.58	23.96	3 15 54.8	2 46.5	4.517 941	6 500	1 46.2
21	11 44 24.62	24.36	3 18 41.3	2 48.7	4.511 441	6 213	1 41.9
22	11 44 0.26	24.75	+3 21 30.0	2 50.9	4.505 228	5 927	1 37.6
23	11 43 35.51	25.12	3 24 20.9	2 52.9	4.499 301	5 637	1 33.2
24	11 43 10.39	25.48	3 27 13.8	2 54.8	4.493 664	5 345	1 28.9
25	11 42 44.91	25.82	3 30 8.6	2 56.6	4.488 319	5 051	1 24.5
26	11 42 19.09	26.14	3 33 5.2	2 58.2	4.483 268	4 755	1 20.2
27	11 41 52.95	26.44	3 36 3.4	2 59.8	4.478 513	4 459	1 15.8
28	11 41 26.51	26.73	+3 39 3.2	3 1.2	4.474 054	4 159	1 11.4
März 1	11 40 59.78	27.00	3 42 4.4	3 2.5	4.469 895	3 857	1 7.1
2	11 40 32.78	27.25	3 45 6.9	3 3.6	4.466 038	3 555	1 2.7
3	11 40 5.53	27.48	3 48 10.5	3 4.7	4.462 483	3 250	0 58.3
4	11 39 38.05	27.69	3 51 15.2	3 5.6	4.459 233	2 945	0 53.9
5	11 39 10.36	27.89	3 54 20.8	3 6.4	4.456 288	2 638	0 49.5
6	11 38 42.47	28.05	+3 57 27.2	3 7.0	4.453 650	2 329	0 45.1
7	11 38 14.42	28.22	4 0 34.2	3 7.6	4.451 321	2 019	0 40.7
8	11 37 46.20	28.35	4 3 41.8	3 7.9	4.449 302	1 708	0 36.3
9	11 37 17.85	28.46	4 6 49.7	3 8.2	4.447 594	1 396	0 31.9
10	11 36 49.39	28.55	4 9 57.9	3 8.3	4.446 198	1 085	0 27.5
11	11 36 20.84	28.63	4 13 6.2	3 8.2	4.445 113	770	0 23.1
12	11 35 52.21	28.68	+4 16 14.4	3 8.1	4.444 343	456	0 18.7
13	11 35 23.53	28.70	4 19 22.5	3 7.8	4.443 887	143	0 14.3
14	11 34 54.83	28.71	4 22 30.3	3 7.3	4.443 744	$\overline{171}$	0 9.9
15	11 34 26.12	28.70	4 25 37.6	3 6.8	4.443 915	484	0 5.5
16	11 33 57.42	28.65	4 28 44.4	3 6.0	4.444 399	798	0 1.1
17	11 33 28.77	28.60	4 31 50.4	3 5.2	4.445 197	1 110	{23 56.7 23 52.3}
18	11 33 0.17	28.52	+4 34 55.6	3 4.1	4.446 307	1 420	23 47.9
19	11 32 31.65	28.41	4 37 59.7	3 2.9	4.447 727	1 730	23 43.5
20	11 32 3.24	28.30	4 41 2.6	3 1.7	4.449 457	2 038	23 39.1
21	11 31 34.94	28.15	4 44 4.3	3 0.3	4.451 495	2 345	23 34.7
22	11 31 6.79	27.98	4 47 4.6	2 58.8	4.453 840	2 650	23 30.3
23	11 30 38.81		+4 50 3.4		4.456 490		23 25.9

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	′ ″			h m
März 23	11 30 38.81	27.81	+4 50 3.4	2 57.2	4.456 490	2 953	23 25.9
24	11 30 11.00	27.61	4 53 0.6	2 55.3	4.459 443	3 254	23 21.5
25	11 29 43.39	27.40	4 55 55.9	2 53.5	4.462 697	3 553	23 17.1
26	11 29 15.99	27.15	4 58 49.4	2 51.5	4.466 250	3 852	23 12.7
27	11 28 48.84	26.91	5 1 40.9	2 49.4	4.470 102	4 147	23 8.3
28	11 28 21.93	26.63	5 4 30.3	2 47.3	4.474 249	4 440	23 4.0
29	11 27 55.30	26.34	+5 7 17.6	2 44.9	4.478 689	4 731	22 59.6
30	11 27 28.96	26.04	5 10 2.5	2 42.4	4.483 420	5 021	22 55.2
31	11 27 2.92	25.72	5 12 44.9	2 39.9	4.488 441	5 307	22 50.9
April 1	11 26 37.20	25.37	5 15 24.8	2 37.4	4.493 748	5 590	22 46.5
2	11 26 11.83	25.03	5 18 2.2	2 34.7	4.499 338	5 873	22 42.2
3	11 25 46.80	24.65	5 20 36.9	2 31.8	4.505 211	6 153	22 37.8
4	11 25 22.15	24.26	+5 23 8.7	2 28.9	4.511 364	6 430	22 33.5
5	11 24 57.89	23.86	5 25 37.6	2 25.9	4.517 794	6 703	22 29.2
6	11 24 34.03	23.44	5 28 3.5	2 22.9	4.524 497	6 975	22 24.9
7	11 24 10.59	23.02	5 30 26.4	2 19.7	4.531 472	7 244	22 20.5
8	11 23 47.57	22.56	5 32 46.1	2 16.4	4.538 716	7 509	22 16.2
9	11 23 25.01	22.09	5 35 2.5	2 13.2	4.546 225	7 772	22 11.9
10	11 23 2.92	21.62	+5 37 15.7	2 9.7	4.553 997	8 030	22 7.6
11	11 22 41.30	21.12	5 39 25.4	2 6.2	4.562 027	8 286	22 3.4
12	11 22 20.18	20.62	5 41 31.6	2 2.6	4.570 313	8 538	21 59.1
13	11 21 59.56	20.10	5 43 34.2	1 59.0	4.578 851	8 786	21 54.8
14	11 21 39.46	19.56	5 45 33.2	1 55.2	4.587 637	9 029	21 50.6
15	11 21 19.90	19.02	5 47 28.4	1 51.5	4.596 666	9 268	21 46.3
16	11 21 0.88	18.46	+5 49 19.9	1 47.7	4.605 934	9 503	21 42.1
17	11 20 42.42	17.90	5 51 7.6	1 43.7	4.615 437	9 734	21 37.9
18	11 20 24.52	17.32	5 52 51.3	1 39.8	4.625 171	9 959	21 33.6
19	11 20 7.20	16.74	5 54 31.1	1 35.8	4.635 130	10 182	21 29.4
20	11 19 50.46	16.15	5 56 6.9	1 31.8	4.645 312	10 398	21 25.2
21	11 19 34.31	15.55	5 57 38.7	1 27.7	4.655 710	10 611	21 21.0
22	11 19 18.76	14.94	+5 59 6.4	1 23.6	4.666 321	10 819	21 16.9
23	11 19 3.82	14.33	6 0 30.0	1 19.6	4.677 140	11 024	21 12.7
24	11 18 49.49	13.71	6 1 49.6	1 15.3	4.688 164	11 224	21 8.5
25	11 18 35.78	13.09	6 3 4.9	1 11.1	4.699 388	11 419	21 4.4
26	11 18 22.69	12.46	6 4 16.0	1 7.0	4.710 807	11 610	21 0.2
27	11 18 10.23	11.82	6 5 23.0	1 2.7	4.722 417	11 796	20 56.1
28	11 17 58.41	11.18	+6 6 25.7	0 58.4	4.734 213	11 981	20 52.0
29	11 17 47.23	10.53	6 7 24.1	0 54.2	4.746 194	12 158	20 47.9
30	11 17 36.70	9.89	6 8 18.3	0 50.0	4.758 352	12 334	20 43.8
Mai 1	11 17 26.81	9.24	6 9 8.3	0 45.6	4.770 686	12 503	20 39.7
2	11 17 17.57	8.58	6 9 53.9	0 41.3	4.783 189	12 669	20 35.6
3	11 17 8.99		+6 10 35.2		4.795 858		20 31.5

Tag		0h Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		Δ		
1945		h m s	s	° ′ ″	′ ″			h m
Mai	3	11 17 8.99	7.92	+6 10 35.2	0 37.0	4.795 858	12 832	20 31.5
	4	11 17 1.07	7.26	6 11 12.2	0 32.7	4.808 690	12 989	20 27.5
	5	11 16 53.81	6.59	6 11 44.9	0 28.3	4.821 679	13 142	20 23.5
	6	11 16 47.22	5.92	6 12 13.2	0 24.0	4.834 821	13 292	20 19.4
	7	11 16 41.30	5.25	6 12 37.2	0 19.6	4.848 113	13 436	20 15.4
	8	11 16 36.05	4.58	6 12 56.8	0 15.3	4.861 549	13 577	20 11.4
	9	11 16 31.47	3.90	+6 13 12.1	0 10.8	4.875 126	13 712	20 7.4
	10	11 16 27.57	3.22	6 13 22.9	0 6.5	4.888 838	13 842	20 3.4
	11	11 16 24.35	2.54	6 13 29.4	0 2.2	4.902 680	13 969	19 59.4
	12	11 16 21.81	1.86	6 13 31.6	0 2.2	4.916 649	14 091	19 55.5
	13	11 16 19.95	1.18	6 13 29.4	0 6.6	4.930 740	14 205	19 51.5
	14	11 16 18.77	0.50	6 13 22.8	0 10.9	4.944 945	14 316	19 47.6
	15	11 16 18.27	0.17	+6 13 11.9	0 15.2	4.959 261	14 423	19 43.6
	16	11 16 18.44	0.85	6 12 56.7	0 19.6	4.973 684	14 524	19 39.7
	17	11 16 19.29	1.53	6 12 37.1	0 23.9	4.988 208	14 621	19 35.8
	18	11 16 20.82	2.20	6 12 13.2	0 28.2	5.002 829	14 712	19 31.9
	19	11 16 23.02	2.86	6 11 45.0	0 32.4	5.017 541	14 799	19 28.0
	20	11 16 25.88	3.54	6 11 12.6	0 36.7	5.032 340	14 884	19 24.2
	21	11 16 29.42	4.19	+6 10 35.9	0 40.8	5.047 224	14 960	19 20.3
	22	11 16 33.61	4.85	6 9 55.1	0 45.1	5.062 184	15 035	19 16.4
	23	11 16 38.46	5.51	6 9 10.0	0 49.2	5.077 219	15 106	19 12.6
	24	11 16 43.97	6.17	6 8 20.8	0 53.3	5.092 325	15 171	19 8.8
	25	11 16 50.14	6.81	6 7 27.5	0 57.5	5.107 496	15 233	19 4.9
	26	11 16 56.95	7.45	6 6 30.0	1 1.5	5.122 729	15 290	19 1.1
	27	11 17 4.40	8.10	+6 5 28.5	1 5.6	5.138 019	15 345	18 57.3
	28	11 17 12.50	8.73	6 4 22.9	1 9.6	5.153 364	15 394	18 53.5
	29	11 17 21.23	9.37	6 3 13.3	1 13.6	5.168 758	15 440	18 49.8
	30	11 17 30.60	9.99	6 1 59.7	1 17.6	5.184 198	15 483	18 46.0
	31	11 17 40.59	10.62	6 0 42.1	1 21.6	5.199 681	15 522	18 42.2
Juni	1	11 17 51.21	11.24	5 59 20.5	1 25.4	5.215 203	15 557	18 38.5
	2	11 18 2.45	11.86	+5 57 55.1	1 29.3	5.230 760	15 587	18 34.8
	3	11 18 14.31	12.47	5 56 25.8	1 33.2	5.246 347	15 615	18 31.0
	4	11 18 26.78	13.08	5 54 52.6	1 37.0	5.261 962	15 638	18 27.3
	5	11 18 39.86	13.69	5 53 15.6	1 40.9	5.277 600	15 657	18 23.6
	6	11 18 53.55	14.29	5 51 34.7	1 44.6	5.293 257	15 673	18 19.9
	7	11 19 7.84	14.89	5 49 50.1	1 48.4	5.308 930	15 684	18 16.2
	8	11 19 22.73	15.48	+5 48 1.7	1 52.1	5.324 614	15 690	18 12.5
	9	11 19 38.21	16.07	5 46 9.6	1 55.8	5.340 304	15 693	18 8.9
	10	11 19 54.28	16.65	5 44 13.8	1 59.5	5.355 997	15 692	18 5.2
	11	11 20 10.93	17.24	5 42 14.3	2 3.1	5.371 689	15 686	18 1.6
	12	11 20 28.17	17.80	5 40 11.2	2 6.7	5.387 375	15 676	17 57.9
	13	11 20 45.97		+5 38 4.5		5.403 051		17 54.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	′ ″			h m
Juni 13	11 20 45.97	18.37	+5 38 4.5	2 10.2	5.403 051	15 663	17 54.3
14	11 21 4.34	18.93	5 35 54.3	2 13.8	5.418 714	15 646	17 50.7
15	11 21 23.27	19.49	5 33 40.5	2 17.3	5.434 360	15 623	17 47.1
16	11 21 42.76	20.03	5 31 23.2	2 20.7	5.449 983	15 599	17 43.5
17	11 22 2.79	20.57	5 29 2.5	2 24.1	5.465 582	15 571	17 39.9
18	11 22 23.36	21.10	5 26 38.4	2 27.5	5.481 153	15 539	17 36.3
19	11 22 44.46	21.63	+5 24 10.9	2 30.8	5.496 692	15 504	17 32.7
20	11 23 6.09	22.16	5 21 40.1	2 34.0	5.512 196	15 465	17 29.1
21	11 23 28.25	22.67	5 19 6.1	2 37.3	5.527 661	15 424	17 25.6
22	11 23 50.92	23.17	5 16 28.8	2 40.6	5.543 085	15 379	17 22.0
23	11 24 14.09	23.68	5 13 48.2	2 43.7	5.558 464	15 332	17 18.5
24	11 24 37.77	24.17	5 11 4.5	2 46.9	5.573 796	15 280	17 15.0
25	11 25 1.94	24.67	+5 8 17.6	2 49.9	5.589 076	15 228	17 11.4
26	11 25 26.61	25.15	5 5 27.7	2 53.0	5.604 304	15 172	17 7.9
27	11 25 51.76	25.63	5 2 34.7	2 56.0	5.619 476	15 111	17 4.4
28	11 26 17.39	26.10	4 59 38.7	2 59.0	5.634 587	15 051	17 0.9
29	11 26 43.49	26.57	4 56 39.7	3 1.9	5.649 638	14 985	16 57.4
30	11 27 10.06	27.03	4 53 37.8	3 4.9	5.664 623	14 919	16 53.9
Juli 1	11 27 37.09	27.50	+4 50 32.9	3 7.8	5.679 542	14 848	16 50.4
2	11 28 4.59	27.94	4 47 25.1	3 10.6	5.694 390	14 775	16 47.0
3	11 28 32.53	28.39	4 44 14.5	3 13.4	5.709 165	14 699	16 43.5
4	11 29 0.92	28.84	4 41 1.1	3 16.3	5.723 864	14 619	16 40.1
5	11 29 29.76	29.28	4 37 44.8	3 19.0	5.738 483	14 537	16 36.6
6	11 29 59.04	29.71	4 34 25.8	3 21.7	5.753 020	14 451	16 33.2
7	11 30 28.75	30.13	+4 31 4.1	3 24.5	5.767 471	14 362	16 29.7
8	11 30 58.88	30.55	4 27 39.6	3 27.1	5.781 833	14 271	16 26.3
9	11 31 29.43	30.97	4 24 12.5	3 29.7	5.796 104	14 175	16 22.9
10	11 32 0.40	31.38	4 20 42.8	3 32.4	5.810 279	14 077	16 19.5
11	11 32 31.78	31.78	4 17 10.4	3 34.9	5.824 356	13 976	16 16.1
12	11 33 3.56	32.18	4 13 35.5	3 37.3	5.838 332	13 872	16 12.7
13	11 33 35.74	32.57	+4 9 58.2	3 39.9	5.852 204	13 766	16 9.3
14	11 34 8.31	32.95	4 6 18.3	3 42.3	5.865 970	13 655	16 5.9
15	11 34 41.26	33.33	4 2 36.0	3 44.7	5.879 625	13 544	16 2.5
16	11 35 14.59	33.70	3 58 51.3	3 47.0	5.893 169	13 430	15 59.1
17	11 35 48.29	34.07	3 55 4.3	3 49.3	5.906 599	13 314	15 55.8
18	11 36 22.36	34.42	3 51 15.0	3 51.7	5.919 913	13 196	15 52.4
19	11 36 56.78	34.77	+3 47 23.3	3 53.9	5.933 109	13 075	15 49.0
20	11 37 31.55	35.13	3 43 29.4	3 56.0	5.946 184	12 951	15 45.7
21	11 38 6.68	35.46	3 39 33.4	3 58.2	5.959 135	12 827	15 42.3
22	11 38 42.14	35.80	3 35 35.2	4 0.4	5.971 962	12 699	15 39.0
23	11 39 17.94	36.13	3 31 34.8	4 2.4	5.984 661	12 572	15 35.7
24	11 39 54.07		+3 27 32.4		5.997 233		15 32.3

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	′ ″			h m
Juli	24	11 39 54.07	36.46	+3 27 32.4	4 4.5	5.997 233	12 441	15 32.3
	25	11 40 30.53	36.77	3 23 27.9	4 6.6	6.009 674	12 308	15 29.0
	26	11 41 7.30	37.10	3 19 21.3	4 8.5	6.021 982	12 174	15 25.7
	27	11 41 44.40	37.40	3 15 12.8	4 10.5	6.034 156	12 037	15 22.4
	28	11 42 21.80	37.71	3 11 2.3	4 12.4	6.046 193	11 900	15 19.1
	29	11 42 59.51	38.01	3 6 49.9	4 14.3	6.058 093	11 760	15 15.8
	30	11 43 37.52	38.31	+3 2 35.6	4 16.1	6.069 853	11 618	15 12.5
	31	11 44 15.83	38.61	2 58 19.5	4 18.0	6.081 471	11 473	15 9.2
Aug.	1	11 44 54.44	38.89	2 54 1.5	4 19.9	6.092 944	11 327	15 5.9
	2	11 45 33.33	39.18	2 49 41.6	4 21.6	6.104 271	11 178	15 2.6
	3	11 46 12.51	39.46	2 45 20.0	4 23.3	6.115 449	11 026	14 59.3
	4	11 46 51.97	39.73	2 40 56.7	4 25.1	6.126 475	10 872	14 56.0
	5	11 47 31.70	40.00	+2 36 31.6	4 26.8	6.137 347	10 718	14 52.8
	6	11 48 11.70	40.27	2 32 4.8	4 28.4	6.148 065	10 560	14 49.5
	7	11 48 51.97	40.53	2 27 36.4	4 30.0	6.158 625	10 400	14 46.2
	8	11 49 32.50	40.78	2 23 6.4	4 31.6	6.169 025	10 238	14 43.0
	9	11 50 13.28	41.03	2 18 34.8	4 33.2	6.179 263	10 074	14 39.7
	10	11 50 54.31	41.27	2 14 1.6	4 34.6	6.189 337	9 908	14 36.5
	11	11 51 35.58	41.51	+2 9 27.0	4 36.1	6.199 245	9 742	14 33.2
	12	11 52 17.09	41.75	2 4 50.9	4 37.5	6.208 987	9 572	14 30.0
	13	11 52 58.84	41.97	2 0 13.4	4 39.0	6.218 559	9 403	14 26.8
	14	11 53 40.81	42.19	1 55 34.4	4 40.2	6.227 962	9 230	14 23.5
	15	11 54 23.00	42.41	1 50 54.2	4 41.6	6.237 192	9 056	14 20.3
	16	11 55 5.41	42.62	1 46 12.6	4 42.9	6.246 248	8 883	14 17.1
	17	11 55 48.03	42.83	+1 41 29.7	4 44.1	6.255 131	8 707	14 13.9
	18	11 56 30.86	43.03	1 36 45.6	4 45.3	6.263 838	8 529	14 10.6
	19	11 57 13.89	43.23	1 32 0.3	4 46.6	6.272 367	8 351	14 7.4
	20	11 57 57.12	43.42	1 27 13.7	4 47.6	6.280 718	8 172	14 4.2
	21	11 58 40.54	43.61	1 22 26.1	4 48.7	6.288 890	7 991	14 1.0
	22	11 59 24.15	43.79	1 17 37.4	4 49.8	6.296 881	7 812	13 57.8
	23	12 0 7.94	43.97	+1 12 47.6	4 50.9	6.304 693	7 627	13 54.6
	24	12 0 51.91	44.15	1 7 56.7	4 51.9	6.312 320	7 445	13 51.4
	25	12 1 36.06	44.33	1 3 4.8	4 52.9	6.319 765	7 260	13 48.2
	26	12 2 20.39	44.49	0 58 11.9	4 53.8	6.327 025	7 075	13 45.0
	27	12 3 4.88	44.66	0 53 18.1	4 54.8	6.334 100	6 887	13 41.8
	28	12 3 49.54	44.82	0 48 23.3	4 55.7	6.340 987	6 699	13 38.6
	29	12 4 34.36	44.98	+0 43 27.6	4 56.6	6.347 686	6 509	13 35.4
	30	12 5 19.34	45.14	0 38 31.0	4 57.4	6.354 195	6 317	13 32.2
	31	12 6 4.48	45.29	0 33 33.6	4 58.3	6.360 512	6 125	13 29.1
Sept.	1	12 6 49.77	45.43	0 28 35.3	4 59.0	6.366 637	5 931	13 25.9
	2	12 7 35.20	45.58	0 23 36.3	4 59.8	6.372 568	5 734	13 22.7
	3	12 8 20.78		+0 18 36.5		6.378 302		13 19.5

Jupiter 1945

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	′ ″			h m
Sept. 3	12 8 20.78	45.71	+0 18 36.5	5 0.5	6.378 302	5 537	13 19.5
4	12 9 6.49	45.84	0 13 36.0	5 1.2	6.383 839	5 339	13 16.4
5	12 9 52.33	45.98	0 8 34.8	5 1.8	6.389 178	5 139	13 13.2
6	12 10 38.31	46.09	+0 3 33.0	5 2.4	6.394 317	4 940	13 10.0
7	12 11 24.40	46.21	−0 1 29.4	5 3.1	6.399 257	4 736	13 6.8
8	12 12 10.61	46.33	0 6 32.5	5 3.5	6.403 993	4 534	13 3.7
9	12 12 56.94	46.44	−0 11 36.0	5 4.1	6.408 527	4 332	13 0.5
10	12 13 43.38	46.53	0 16 40.1	5 4.6	6.412 859	4 127	12 57.4
11	12 14 29.91	46.64	0 21 44.7	5 4.9	6.416 986	3 921	12 54.2
12	12 15 16.55	46.73	0 26 49.6	5 5.4	6.420 907	3 717	12 51.0
13	12 16 3.28	46.82	0 31 55.0	5 5.7	6.424 624	3 511	12 47.9
14	12 16 50.10	46.91	0 37 0.7	5 6.1	6.428 135	3 304	12 44.7
15	12 17 37.01	46.98	−0 42 6.8	5 6.3	6.431 439	3 098	12 41.6
16	12 18 23.99	47.07	0 47 13.1	5 6.6	6.434 537	2 890	12 38.4
17	12 19 11.06	47.14	0 52 19.7	5 6.9	6.437 427	2 684	12 35.3
18	12 19 58.20	47.20	0 57 26.6	5 7.0	6.440 111	2 475	12 32.1
19	12 20 45.40	47.27	1 2 33.6	5 7.2	6.442 586	2 269	12 29.0
20	12 21 32.67	47.33	1 7 40.8	5 7.3	6.444 855	2 059	12 25.8
21	12 22 20.00	47.38	−1 12 48.1	5 7.4	6.446 914	1 852	12 22.7
22	12 23 7.38	47.44	1 17 55.5	5 7.5	6.448 766	1 642	12 19.5
23	12 23 54.82	47.49	1 23 3.0	5 7.5	6.450 408	1 435	12 16.4
24	12 24 42.31	47.54	1 28 10.5	5 7.5	6.451 843	1 224	12 13.3
25	12 25 29.85	47.58	1 33 18.0	5 7.6	6.453 067	1 014	12 10.1
26	12 26 17.43	47.62	1 38 25.6	5 7.5	6.454 081	803	12 7.0
27	12 27 5.05	47.66	−1 43 33.1	5 7.4	6.454 884	592	12 3.8
28	12 27 52.71	47.69	1 48 40.5	5 7.3	6.455 476	379	12 0.7
29	12 28 40.40	47.72	1 53 47.8	5 7.2	6.455 855	167	11 57.5
30	12 29 28.12	47.74	1 58 55.0	5 7.1	6.456 022	$\overline{47}$	11 54.4
Okt. 1	12 30 15.86	47.76	2 4 2.1	5 6.8	6.455 975	261	11 51.3
2	12 31 3.62	47.77	2 9 8.9	5 6.6	6.455 714	476	11 48.1
3	12 31 51.39	47.78	−2 14 15.5	5 6.3	6.455 238	690	11 45.0
4	12 32 39.17	47.78	2 19 21.8	5 6.0	6.454 548	905	11 41.8
5	12 33 26.95	47.79	2 24 27.8	5 5.7	6.453 643	1 120	11 38.7
6	12 34 14.74	47.77	2 29 33.5	5 5.3	6.452 523	1 335	11 35.6
7	12 35 2.51	47.77	2 34 38.8	5 4.9	6.451 188	1 551	11 32.4
8	12 35 50.28	47.75	2 39 43.7	5 4.4	6.449 637	1 765	11 29.3
9	12 36 38.03	47.73	−2 44 48.1	5 4.0	6.447 872	1 980	11 26.2
10	12 37 25.76	47.70	2 49 52.1	5 3.4	6.445 892	2 194	11 23.0
11	12 38 13.46	47.67	2 54 55.5	5 2.8	6.443 698	2 408	11 19.9
12	12 39 1.13	47.63	2 59 58.3	5 2.3	6.441 290	2 621	11 16.7
13	12 39 48.76	47.60	3 5 0.6	5 1.6	6.438 669	2 836	11 13.6
14	12 40 36.36		−3 10 2.2		6.435 833		11 10.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	′ ″			h m
Okt. 14	12 40 36.36	47.55	−3 10 2.2	5 0.9	6.435 833	3 047	11 10.4
15	12 41 23.91	47.50	3 15 3.1	5 0.2	6.432 786	3 259	11 7.3
16	12 42 11.41	47.44	3 20 3.3	4 59.5	6.429 527	3 470	11 4.1
17	12 42 58.85	47.39	3 25 2.8	4 58.7	6.426 057	3 681	11 1.0
18	12 43 46.24	47.33	3 30 1.5	4 57.9	6.422 376	3 891	10 57.9
19	12 44 33.57	47.26	3 34 59.4	4 57.1	6.418 485	4 099	10 54.7
20	12 45 20.83	47.18	−3 39 56.5	4 56.2	6.414 386	4 309	10 51.6
21	12 46 8.01	47.12	3 44 52.7	4 55.3	6.410 077	4 518	10 48.4
22	12 46 55.13	47.04	3 49 48.0	4 54.4	6.405 559	4 724	10 45.3
23	12 47 42.17	46.95	3 54 42.4	4 53.5	6.400 835	4 932	10 42.1
24	12 48 29.12	46.87	3 59 35.9	4 52.5	6.395 903	5 140	10 39.0
25	12 49 15.99	46.77	4 4 28.4	4 51.5	6.390 763	5 346	10 35.8
26	12 50 2.76	46.68	−4 9 19.9	4 50.4	6.385 417	5 553	10 32.7
27	12 50 49.44	46.58	4 14 10.3	4 49.4	6.379 864	5 760	10 29.5
28	12 51 36.02	46.48	4 18 59.7	4 48.3	6.374 104	5 965	10 26.3
29	12 52 22.50	46.36	4 23 48.0	4 47.1	6.368 139	6 171	10 23.2
30	12 53 8.86	46.24	4 28 35.1	4 46.0	6.361 968	6 377	10 20.0
31	12 53 55.10	46.13	4 33 21.1	4 44.7	6.355 591	6 579	10 16.8
Nov. 1	12 54 41.23	45.99	−4 38 5.8	4 43.5	6.349 012	6 784	10 13.7
2	12 55 27.22	45.86	4 42 49.3	4 42.2	6.342 228	6 986	10 10.5
3	12 56 13.08	45.71	4 47 31.5	4 40.9	6.335 242	7 188	10 7.3
4	12 56 58.79	45.57	4 52 12.4	4 39.5	6.328 054	7 387	10 4.1
5	12 57 44.36	45.42	4 56 51.9	4 38.1	6.320 667	7 588	10 1.0
6	12 58 29.78	45.26	5 1 30.0	4 36.7	6.313 079	7 785	9 57.8
7	12 59 15.04	45.10	−5 6 6.7	4 35.2	6.305 294	7 982	9 54.6
8	13 0 0.14	44.93	5 10 41.9	4 33.6	6.297 312	8 177	9 51.4
9	13 0 45.07	44.75	5 15 15.5	4 32.1	6.289 135	8 371	9 48.2
10	13 1 29.82	44.57	5 19 47.6	4 30.5	6.280 764	8 563	9 45.1
11	13 2 14.39	44.38	5 24 18.1	4 28.9	6.272 201	8 752	9 41.9
12	13 2 58.77	44.19	5 28 47.0	4 27.2	6.263 449	8 943	9 38.7
13	13 3 42.96	44.00	−5 33 14.2	4 25.6	6.254 506	9 129	9 35.5
14	13 4 26.96	43.79	5 37 39.8	4 23.8	6.245 377	9 315	9 32.3
15	13 5 10.75	43.58	5 42 3.6	4 22.0	6.236 062	9 498	9 29.0
16	13 5 54.33	43.37	5 46 25.6	4 20.3	6.226 564	9 680	9 25.8
17	13 6 37.70	43.15	5 50 45.9	4 18.4	6.216 884	9 860	9 22.6
18	13 7 20.85	42.93	5 55 4.3	4 16.6	6.207 024	10 038	9 19.4
19	13 8 3.78	42.70	−5 59 20.9	4 14.7	6.196 986	10 216	9 16.2
20	13 8 46.48	42.47	6 3 35.6	4 12.8	6.186 770	10 392	9 13.0
21	13 9 28.95	42.23	6 7 48.4	4 10.9	6.176 378	10 565	9 9.7
22	13 10 11.18	41.98	6 11 59.3	4 8.9	6.165 813	10 739	9 6.5
23	13 10 53.16	41.73	6 16 8.2	4 6.9	6.155 074	10 909	9 3.3
24	13 11 34.89		−6 20 15.1		6.144 165		9 0.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	′ ″			h m
Nov. 24	13 11 34.89	41.48	−6 20 15.1	4 4.9	6.144 165	11 080	9 0.0
25	13 12 16.37	41.21	6 24 20.0	4 2.8	6.133 085	11 248	8 56.8
26	13 12 57.58	40.94	6 28 22.8	4 0.7	6.121 837	11 415	8 53.5
27	13 13 38.52	40.67	6 32 23.5	3 58.6	6.110 422	11 580	8 50.3
28	13 14 19.19	40.38	6 36 22.1	3 56.4	6.098 842	11 744	8 47.0
29	13 14 59.57	40.09	6 40 18.5	3 54.2	6.087 098	11 904	8 43.8
30	13 15 39.66	39.79	−6 44 12.7	3 51.9	6.075 194	12 063	8 40.5
Dez. 1	13 16 19.45	39.48	6 48 4.6	3 49.6	6.063 131	12 220	8 37.2
2	13 16 58.93	39.18	6 51 54.2	3 47.3	6.050 911	12 374	8 33.9
3	13 17 38.11	38.85	6 55 41.5	3 44.9	6.038 537	12 527	8 30.6
4	13 18 16.96	38.53	6 59 26.4	3 42.5	6.026 010	12 676	8 27.4
5	13 18 55.49	38.20	7 3 8.9	3 40.1	6.013 334	12 822	8 24.1
6	13 19 33.69	37.85	−7 6 49.0	3 37.6	6.000 512	12 967	8 20.8
7	13 20 11.54	37.51	7 10 26.6	3 35.1	5.987 545	13 109	8 17.5
8	13 20 49.05	37.15	7 14 1.7	3 32.5	5.974 436	13 247	8 14.1
9	13 21 26.20	36.79	7 17 34.2	3 29.9	5.961 189	13 383	8 10.8
10	13 22 2.99	36.42	7 21 4.1	3 27.3	5.947 806	13 516	8 7.5
11	13 22 39.41	36.05	7 24 31.4	3 24.6	5.934 290	13 645	8 4.2
12	13 23 15.46	35.66	−7 27 56.0	3 22.0	5.920 645	13 773	8 0.8
13	13 23 51.12	35.28	7 31 18.0	3 19.2	5.906 872	13 896	7 57.5
14	13 24 26.40	34.89	7 34 37.2	3 16.5	5.892 976	14 017	7 54.1
15	13 25 1.29	34.49	7 37 53.7	3 13.7	5.878 959	14 135	7 50.8
16	13 25 35.78	34.08	7 41 7.4	3 10.9	5.864 824	14 251	7 47.4
17	13 26 9.86	33.67	7 44 18.3	3 8.1	5.850 573	14 363	7 44.0
18	13 26 43.53	33.25	−7 47 26.4	3 5.3	5.836 210	14 472	7 40.7
19	13 27 16.78	32.83	7 50 31.7	3 2.3	5.821 738	14 580	7 37.3
20	13 27 49.61	32.40	7 53 34.0	2 59.5	5.807 158	14 684	7 33.9
21	13 28 22.01	31.96	7 56 33.5	2 56.5	5.792 474	14 786	7 30.5
22	13 28 53.97	31.51	7 59 30.0	2 53.5	5.777 688	14 885	7 27.1
23	13 29 25.48	31.07	8 2 23.5	2 50.5	5.762 803	14 981	7 23.7
24	13 29 56.55	30.60	−8 5 14.0	2 47.5	5.747 822	15 075	7 20.3
25	13 30 27.15	30.13	8 8 1.5	2 44.4	5.732 747	15 163	7 16.9
26	13 30 57.28	29.66	8 10 45.9	2 41.2	5.717 584	15 252	7 13.4
27	13 31 26.94	29.17	8 13 27.1	2 38.2	5.702 332	15 335	7 10.0
28	13 31 56.11	28.68	8 16 5.3	2 34.9	5.686 997	15 415	7 6.5
29	13 32 24.79	28.18	8 18 40.2	2 31.8	5.671 582	15 491	7 3.1
30	13 32 52.97	27.68	−8 21 12.0	2 28.4	5.656 091	15 564	6 59.6
31	13 33 20.65	27.16	8 23 40.4	2 25.2	5.640 527	15 632	6 56.1
32	13 33 47.81		−8 26 5.6		5.624 895		6 52.6

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	″			h m
Jan.	0	6 30 59.32	21.36	+22 29 33.7	22.4	8.04 752	80	23 49.5
	1	6 30 37.96	21.33	22 29 56.1	22.3	8.04 832	111	23 45.3
	2	6 30 16.63	21.28	22 30 18.4	22.2	8.04 943	143	23 41.0
	3	6 29 55.35	21.23	22 30 40.6	22.1	8.05 086	175	23 36.7
	4	6 29 34.12	21.16	22 31 2.7	21.9	8.05 261	207	23 32.4
	5	6 29 12.96	21.07	22 31 24.6	21.8	8.05 468	238	23 28.1
	6	6 28 51.89	20.98	+22 31 46.4	21.7	8.05 706	269	23 23.8
	7	6 28 30.91	20.88	22 32 8.1	21.5	8.05 975	301	23 19.6
	8	6 28 10.03	20.76	22 32 29.6	21.4	8.06 276	333	23 15.3
	9	6 27 49.27	20.63	22 32 51.0	21.2	8.06 609	363	23 11.0
	10	6 27 28.64	20.49	22 33 12.2	21.0	8.06 972	395	23 6.7
	11	6 27 8.15	20.33	22 33 33.2	20.9	8.07 367	426	23 2.5
	12	6 26 47.82	20.16	+22 33 54.1	20.7	8.07 793	456	22 58.2
	13	6 26 27.66	19.98	22 34 14.8	20.5	8.08 249	487	22 53.9
	14	6 26 7.68	19.79	22 34 35.3	20.3	8.08 736	518	22 49.7
	15	6 25 47.89	19.59	22 34 55.6	20.1	8.09 254	548	22 45.4
	16	6 25 28.30	19.37	22 35 15.7	19.9	8.09 802	577	22 41.2
	17	6 25 8.93	19.15	22 35 35.6	19.8	8.10 379	608	22 36.9
	18	6 24 49.78	18.91	+22 35 55.4	19.5	8.10 987	636	22 32.7
	19	6 24 30.87	18.65	22 36 14.9	19.4	8.11 623	666	22 28.4
	20	6 24 12.22	18.40	22 36 34.3	19.1	8.12 289	695	22 24.2
	21	6 23 53.82	18.12	22 36 53.4	18.9	8.12 984	723	22 20.0
	22	6 23 35.70	17.85	22 37 12.3	18.7	8.13 707	751	22 15.8
	23	6 23 17.85	17.56	22 37 31.0	18.4	8.14 458	779	22 11.5
	24	6 23 0.29	17.26	+22 37 49.4	18.3	8.15 237	807	22 7.3
	25	6 22 43.03	16.95	22 38 7.7	18.0	8.16 044	834	22 3.1
	26	6 22 26.08	16.64	22 38 25.7	17.9	8.16 878	860	21 58.9
	27	6 22 9.44	16.31	22 38 43.6	17.6	8.17 738	887	21 54.7
	28	6 21 53.13	15.99	22 39 1.2	17.4	8.18 625	913	21 50.5
	29	6 21 37.14	15.64	22 39 18.6	17.2	8.19 538	939	21 46.3
	30	6 21 21.50	15.29	+22 39 35.8	17.0	8.20 477	964	21 42.1
	31	6 21 6.21	14.94	22 39 52.8	16.8	8.21 441	990	21 37.9
Febr.	1	6 20 51.27	14.58	22 40 9.6	16.5	8.22 431	1 014	21 33.7
	2	6 20 36.69	14.20	22 40 26.1	16.3	8.23 445	1 038	21 29.6
	3	6 20 22.49	13.83	22 40 42.4	16.1	8.24 483	1 063	21 25.4
	4	6 20 8.66	13.44	22 40 58.5	15.9	8.25 546	1 086	21 21.3
	5	6 19 55.22	13.04	+22 41 14.4	15.6	8.26 632	1 110	21 17.1
	6	6 19 42.18	12.65	22 41 30.0	15.5	8.27 742	1 132	21 13.0
	7	6 19 29.53	12.24	22 41 45.5	15.2	8.28 874	1 155	21 8.8
	8	6 19 17.29	11.83	22 42 0.7	15.1	8.30 029	1 177	21 4.7
	9	6 19 5.46	11.41	22 42 15.8	14.8	8.31 206	1 199	21 0.6
	10	6 18 54.05		+22 42 30.6		8.32 405		20 56.5

Saturn 1945

Tag		0h Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		Δ		
1945		h m s	s	° ′ ″	″			h m
Febr.	10	6 18 54.05	10.98	+22 42 30.6	14.6	8.32 405	1 219	20 56.5
	11	6 18 43.07	10.55	22 42 45.2	14.3	8.33 624	1 241	20 52.4
	12	6 18 32.52	10.11	22 42 59.5	14.2	8.34 865	1 261	20 48.3
	13	6 18 22.41	9.67	22 43 13.7	14.0	8.36 126	1 280	20 44.2
	14	6 18 12.74	9.22	22 43 27.7	13.8	8.37 406	1 300	20 40.1
	15	6 18 3.52	8.76	22 43 41.5	13.5	8.38 706	1 318	20 36.0
	16	6 17 54.76	8.31	+22 43 55.0	13.4	8.40 024	1 337	20 32.0
	17	6 17 46.45	7.85	22 44 8.4	13.2	8.41 361	1 354	20 27.9
	18	6 17 38.60	7.38	22 44 21.6	13.0	8.42 715	1 372	20 23.8
	19	6 17 31.22	6.91	22 44 34.6	12.7	8.44 087	1 388	20 19.8
	20	6 17 24.31	6.45	22 44 47.3	12.6	8.45 475	1 404	20 15.7
	21	6 17 17.86	5.97	22 44 59.9	12.3	8.46 879	1 420	20 11.7
	22	6 17 11.89	5.50	+22 45 12.2	12.2	8.48 299	1 435	20 7.7
	23	6 17 6.39	5.03	22 45 24.4	12.0	8.49 734	1 450	20 3.7
	24	6 17 1.36	4.54	22 45 36.4	11.8	8.51 184	1 463	19 59.7
	25	6 16 56.82	4.07	22 45 48.2	11.6	8.52 647	1 478	19 55.7
	26	6 16 52.75	3.59	22 45 59.8	11.3	8.54 125	1 491	19 51.7
	27	6 16 49.16	3.11	22 46 11.1	11.2	8.55 616	1 503	19 47.7
	28	6 16 46.05	2.63	+22 46 22.3	10.9	8.57 119	1 516	19 43.7
März	1	6 16 43.42	2.14	22 46 33.2	10.8	8.58 635	1 528	19 39.7
	2	6 16 41.28	1.65	22 46 44.0	10.5	8.60 163	1 539	19 35.8
	3	6 16 39.63	1.18	22 46 54.5	10.4	8.61 702	1 550	19 31.8
	4	6 16 38.45	0.68	22 47 4.9	10.1	8.63 252	1 560	19 27.9
	5	6 16 37.77	0.20	22 47 15.0	9.9	8.64 812	1 570	19 23.9
	6	6 16 37.57	0.29	+22 47 24.9	9.7	8.66 382	1 580	19 20.0
	7	6 16 37.86	0.78	22 47 34.6	9.6	8.67 962	1 589	19 16.1
	8	6 16 38.64	1.26	22 47 44.2	9.3	8.69 551	1 597	19 12.2
	9	6 16 39.90	1.75	22 47 53.5	9.1	8.71 148	1 605	19 8.3
	10	6 16 41.65	2.24	22 48 2.6	8.8	8.72 753	1 612	19 4.4
	11	6 16 43.89	2.73	22 48 11.4	8.7	8.74 365	1 619	19 0.5
	12	6 16 46.62	3.22	+22 48 20.1	8.4	8.75 984	1 626	18 56.6
	13	6 16 49.84	3.70	22 48 28.5	8.3	8.77 610	1 632	18 52.7
	14	6 16 53.54	4.19	22 48 36.8	8.0	8.79 242	1 638	18 48.9
	15	6 16 57.73	4.68	22 48 44.8	7.7	8.80 880	1 642	18 45.0
	16	6 17 2.41	5.16	22 48 52.5	7.6	8.82 522	1 646	18 41.2
	17	6 17 7.57	5.64	22 49 0.1	7.3	8.84 168	1 650	18 37.3
	18	6 17 13.21	6.11	+22 49 7.4	7.1	8.85 818	1 653	18 33.5
	19	6 17 19.32	6.60	22 49 14.5	6.8	8.87 471	1 656	18 29.7
	20	6 17 25.92	7.06	22 49 21.3	6.6	8.89 127	1 659	18 25.9
	21	6 17 32.98	7.54	22 49 27.9	6.3	8.90 786	1 660	18 22.0
	22	6 17 40.52	8.01	22 49 34.2	6.1	8.92 446	1 661	18 18.2
	23	6 17 48.53		+22 49 40.3		8.94 107		18 14.4

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	″			h m
März	23	6 17 48.53	8.47	+22 49 40.3	5.9	8.94 107	1 662	18 14.4
	24	6 17 57.00	8.93	22 49 46.2	5.5	8.95 769	1 663	18 10.7
	25	6 18 5.93	9.38	22 49 51.7	5.3	8.97 432	1 663	18 6.9
	26	6 18 15.31	9.84	22 49 57.0	5.0	8.99 095	1 662	18 3.1
	27	6 18 25.15	10.30	22 50 2.0	4.8	9.00 757	1 661	17 59.3
	28	6 18 35.45	10.75	22 50 6.8	4.5	9.02 418	1 660	17 55.6
	29	6 18 46.20	11.19	+22 50 11.3	4.1	9.04 078	1 659	17 51.9
	30	6 18 57.39	11.63	22 50 15.4	3.9	9.05 737	1 656	17 48.1
	31	6 19 9.02	12.07	22 50 19.3	3.6	9.07 393	1 653	17 44.4
April	1	6 19 21.09	12.50	22 50 22.9	3.2	9.09 046	1 651	17 40.6
	2	6 19 33.59	12.94	22 50 26.1	3.0	9.10 697	1 647	17 36.9
	3	6 19 46.53	13.37	22 50 29.1	2.6	9.12 344	1 644	17 33.2
	4	6 19 59.90	13.80	+22 50 31.7	2.4	9.13 988	1 639	17 29.5
	5	6 20 13.70	14.22	22 50 34.1	2.0	9.15 627	1 635	17 25.8
	6	6 20 27.92	14.63	22 50 36.1	1.6	9.17 262	1 629	17 22.1
	7	6 20 42.55	15.06	22 50 37.7	1.3	9.18 891	1 624	17 18.4
	8	6 20 57.61	15.47	22 50 39.0	1.0	9.20 515	1 619	17 14.8
	9	6 21 13.08	15.88	22 50 40.0	0.7	9.22 134	1 612	17 11.1
	10	6 21 28.96	16.28	+22 50 40.7	0.3	9.23 746	1 605	17 7.4
	11	6 21 45.24	16.69	22 50 41.0	0.1	9.25 351	1 598	17 3.8
	12	6 22 1.93	17.08	22 50 40.9	0.5	9.26 949	1 590	17 0.1
	13	6 22 19.01	17.48	22 50 40.4	0.8	9.28 539	1 583	16 56.5
	14	6 22 36.49	17.87	22 50 39.6	1.1	9.30 122	1 573	16 52.9
	15	6 22 54.36	18.25	22 50 38.5	1.6	9.31 695	1 565	16 49.2
	16	6 23 12.61	18.63	+22 50 36.9	1.9	9.33 260	1 556	16 45.6
	17	6 23 31.24	19.01	22 50 35.0	2.4	9.34 816	1 546	16 42.0
	18	6 23 50.25	19.37	22 50 32.6	2.7	9.36 362	1 536	16 38.4
	19	6 24 9.62	19.73	22 50 29.9	3.2	9.37 898	1 525	16 34.8
	20	6 24 29.35	20.10	22 50 26.7	3.6	9.39 423	1 515	16 31.1
	21	6 24 49.45	20.45	22 50 23.1	4.0	9.40 938	1 504	16 27.5
	22	6 25 9.90	20.80	+22 50 19.1	4.4	9.42 442	1 493	16 24.0
	23	6 25 30.70	21.14	22 50 14.7	4.9	9.43 935	1 480	16 20.4
	24	6 25 51.84	21.48	22 50 9.8	5.3	9.45 415	1 469	16 16.8
	25	6 26 13.32	21.82	22 50 4.5	5.8	9.46 884	1 457	16 13.2
	26	6 26 35.14	22.15	22 49 58.7	6.2	9.48 341	1 444	16 9.7
	27	6 26 57.29	22.47	22 49 52.5	6.7	9.49 785	1 431	16 6.1
	28	6 27 19.76	22.79	+22 49 45.8	7.1	9.51 216	1 418	16 2.5
	29	6 27 42.55	23.11	22 49 38.7	7.6	9.52 634	1 405	15 59.0
	30	6 28 5.66	23.42	22 49 31.1	8.0	9.54 039	1 391	15 55.4
Mai	1	6 28 29.08	23.73	22 49 23.1	8.6	9.55 430	1 377	15 51.9
	2	6 28 52.81	24.04	22 49 14.5	9.0	9.56 807	1 363	15 48.4
	3	6 29 16.85		+22 49 5.5		9.58 170		15 44.9

Saturn 1945

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	″			h m
Mai 3	6 29 16.85	24.33	+22 49 5.5	9.6	9.58 170	1 348	15 44.9
4	6 29 41.18	24.63	22 48 55.9	10.0	9.59 518	1 334	15 41.3
5	6 30 5.81	24.92	22 48 45.9	10.5	9.60 852	1 318	15 37.8
6	6 30 30.73	25.21	22 48 35.4	11.0	9.62 170	1 303	15 34.3
7	6 30 55.94	25.49	22 48 24.4	11.5	9.63 473	1 287	15 30.8
8	6 31 21.43	25.76	22 48 12.9	12.1	9.64 760	1 271	15 27.3
9	6 31 47.19	26.04	+22 48 0.8	12.5	9.66 031	1 254	15 23.8
10	6 32 13.23	26.31	22 47 48.3	13.1	9.67 285	1 238	15 20.3
11	6 32 39.54	26.57	22 47 35.2	13.6	9.68 523	1 221	15 16.8
12	6 33 6.11	26.82	22 47 21.6	14.2	9.69 744	1 204	15 13.3
13	6 33 32.93	27.08	22 47 7.4	14.7	9.70 948	1 186	15 9.8
14	6 34 0.01	27.33	22 46 52.7	15.2	9.72 134	1 168	15 6.3
15	6 34 27.34	27.57	+22 46 37.5	15.7	9.73 302	1 150	15 2.9
16	6 34 54.91	27.80	22 46 21.8	16.3	9.74 452	1 133	14 59.4
17	6 35 22.71	28.03	22 46 5.5	16.9	9.75 585	1 113	14 55.9
18	6 35 50.74	28.26	22 45 48.6	17.4	9.76 698	1 095	14 52.4
19	6 36 19.00	28.48	22 45 31.2	18.0	9.77 793	1 077	14 49.0
20	6 36 47.48	28.70	22 45 13.2	18.5	9.78 870	1 057	14 45.5
21	6 37 16.18	28.90	+22 44 54.7	19.1	9.79 927	1 038	14 42.1
22	6 37 45.08	29.11	22 44 35.6	19.7	9.80 965	1 019	14 38.6
23	6 38 14.19	29.31	22 44 15.9	20.2	9.81 984	999	14 35.2
24	6 38 43.50	29.50	22 43 55.7	20.8	9.82 983	980	14 31.7
25	6 39 13.00	29.70	22 43 34.9	21.4	9.83 963	959	14 28.3
26	6 39 42.70	29.88	22 43 13.5	21.9	9.84 922	940	14 24.8
27	6 40 12.58	30.06	+22 42 51.6	22.6	9.85 862	920	14 21.4
28	6 40 42.64	30.24	22 42 29.0	23.1	9.86 782	899	14 18.0
29	6 41 12.88	30.42	22 42 5.9	23.7	9.87 681	879	14 14.5
30	6 41 43.30	30.59	22 41 42.2	24.2	9.88 560	858	14 11.1
31	6 42 13.89	30.74	22 41 18.0	24.9	9.89 418	838	14 7.7
Juni 1	6 42 44.63	30.91	22 40 53.1	25.4	9.90 256	816	14 4.3
2	6 43 15.54	31.06	+22 40 27.7	26.0	9.91 072	795	14 0.9
3	6 43 46.60	31.22	22 40 1.7	26.6	9.91 867	774	13 57.4
4	6 44 17.82	31.36	22 39 35.1	27.1	9.92 641	753	13 54.0
5	6 44 49.18	31.51	22 39 8.0	27.8	9.93 394	731	13 50.6
6	6 45 20.69	31.65	22 38 40.2	28.3	9.94 125	709	13 47.2
7	6 45 52.34	31.77	22 38 11.9	28.9	9.94 834	687	13 43.8
8	6 46 24.11	31.91	+22 37 43.0	29.5	9.95 521	665	13 40.4
9	6 46 56.02	32.03	22 37 13.5	30.1	9.96 186	643	13 37.0
10	6 47 28.05	32.15	22 36 43.4	30.7	9.96 829	620	13 33.6
11	6 48 0.20	32.26	22 36 12.7	31.2	9.97 449	598	13 30.2
12	6 48 32.46	32.37	22 35 41.5	31.8	9.98 047	575	13 26.8
13	6 49 4.83		+22 35 9.7		9.98 622		13 23.4

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	″			h m
Juni	13	6 49 4.83	32.47	+22 35 9.7	32.4	9.98 622	552	13 23.4
	14	6 49 37.30	32.57	22 34 37.3	33.0	9.99 174	529	13 20.0
	15	6 50 9.87	32.66	22 34 4.3	33.5	9.99 703	506	13 16.6
	16	6 50 42.53	32.74	22 33 30.8	34.1	10.00 209	484	13 13.3
	17	6 51 15.27	32.83	22 32 56.7	34.7	10.00 693	460	13 9.9
	18	6 51 48.10	32.91	22 32 22.0	35.3	10.01 153	437	13 6.5
	19	6 52 21.01	32.98	+22 31 46.7	35.8	10.01 590	414	13 3.1
	20	6 52 53.99	33.05	22 31 10.9	36.4	10.02 004	391	12 59.7
	21	6 53 27.04	33.11	22 30 34.5	36.9	10.02 395	368	12 56.3
	22	6 54 0.15	33.17	22 29 57.6	37.4	10.02 763	344	12 52.9
	23	6 54 33.32	33.23	22 29 20.2	38.0	10.03 107	321	12 49.6
	24	6 55 6.55	33.27	22 28 42.2	38.6	10.03 428	298	12 46.2
	25	6 55 39.82	33.33	+22 28 3.6	39.1	10.03 726	274	12 42.8
	26	6 56 13.15	33.37	22 27 24.5	39.6	10.04 000	251	12 39.4
	27	6 56 46.52	33.40	22 26 44.9	40.1	10.04 251	228	12 36.0
	28	6 57 19.92	33.44	22 26 4.8	40.6	10.04 479	204	12 32.7
	29	6 57 53.36	33.47	22 25 24.2	41.2	10.04 683	180	12 29.3
	30	6 58 26.83	33.50	22 24 43.0	41.7	10.04 863	157	12 25.9
Juli	1	6 59 0.33	33.52	+22 24 1.3	42.2	10.05 020	133	12 22.5
	2	6 59 33.85	33.54	22 23 19.1	42.7	10.05 153	110	12 19.2
	3	7 0 7.39	33.55	22 22 36.4	43.2	10.05 263	85	12 15.8
	4	7 0 40.94	33.56	22 21 53.2	43.6	10.05 348	62	12 12.4
	5	7 1 14.50	33.57	22 21 9.6	44.2	10.05 410	38	12 9.0
	6	7 1 48.07	33.56	22 20 25.4	44.6	10.05 448	14	12 5.6
	7	7 2 21.63	33.56	+22 19 40.8	45.1	10.05 462	10	12 2.3
	8	7 2 55.19	33.55	22 18 55.7	45.6	10.05 452	34	11 58.9
	9	7 3 28.74	33.54	22 18 10.1	46.0	10.05 418	58	11 55.5
	10	7 4 2.28	33.51	22 17 24.1	46.4	10.05 360	82	11 52.1
	11	7 4 35.79	33.48	22 16 37.7	46.9	10.05 278	106	11 48.8
	12	7 5 9.27	33.46	22 15 50.8	47.3	10.05 172	129	11 45.4
	13	7 5 42.73	33.42	+22 15 3.5	47.7	10.05 043	154	11 42.0
	14	7 6 16.15	33.38	22 14 15.8	48.1	10.04 889	177	11 38.7
	15	7 6 49.53	33.34	22 13 27.7	48.5	10.04 712	201	11 35.3
	16	7 7 22.87	33.28	22 12 39.2	48.9	10.04 511	225	11 31.9
	17	7 7 56.15	33.23	22 11 50.3	49.3	10.04 286	249	11 28.5
	18	7 8 29.38	33.18	22 11 1.0	49.7	10.04 037	272	11 25.1
	19	7 9 2.56	33.11	+22 10 11.3	50.0	10.03 765	295	11 21.8
	20	7 9 35.67	33.04	22 9 21.3	50.4	10.03 470	319	11 18.4
	21	7 10 8.71	32.97	22 8 30.9	50.7	10.03 151	342	11 15.0
	22	7 10 41.68	32.90	22 7 40.2	51.0	10.02 809	365	11 11.6
	23	7 11 14.58	32.82	22 6 49.2	51.3	10.02 444	388	11 8.2
	24	7 11 47.40		+22 5 57.9		10.02 056		11 4.8

Tag		0h Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		Δ		
1945		h m s	s	° ′ ″	″			h m
Juli	24	7 11 47.40	32.73	+22 5 57.9	51.6	10.02 056	412	11 4.8
	25	7 12 20.13	32.65	22 5 6.3	52.0	10.01 644	434	11 1.4
	26	7 12 52.78	32.55	22 4 14.3	52.2	10.01 210	458	10 58.0
	27	7 13 25.33	32.47	22 3 22.1	52.5	10.00 752	480	10 54.6
	28	7 13 57.80	32.36	22 2 29.6	52.7	10.00 272	503	10 51.2
	29	7 14 30.16	32.25	22 1 36.9	53.0	9.99 769	526	10 47.8
	30	7 15 2.41	32.15	+22 0 43.9	53.3	9.99 243	549	10 44.5
	31	7 15 34.56	32.04	21 59 50.6	53.4	9.98 694	571	10 41.1
Aug.	1	7 16 6.60	31.92	21 58 57.2	53.7	9.98 123	593	10 37.7
	2	7 16 38.52	31.80	21 58 3.5	53.8	9.97 530	616	10 34.3
	3	7 17 10.32	31.67	21 57 9.7	54.1	9.96 914	639	10 30.8
	4	7 17 41.99	31.54	21 56 15.6	54.2	9.96 275	661	10 27.4
	5	7 18 13.53	31.41	+21 55 21.4	54.3	9.95 614	684	10 24.0
	6	7 18 44.94	31.26	21 54 27.1	54.5	9.94 930	705	10 20.6
	7	7 19 16.20	31.11	21 53 32.6	54.6	9.94 225	727	10 17.2
	8	7 19 47.31	30.97	21 52 38.0	54.7	9.93 498	749	10 13.8
	9	7 20 18.28	30.80	21 51 43.3	54.9	9.92 749	771	10 10.4
	10	7 20 49.08	30.65	21 50 48.4	54.9	9.91 978	793	10 6.9
	11	7 21 19.73	30.48	+21 49 53.5	54.9	9.91 185	813	10 3.5
	12	7 21 50.21	30.30	21 48 58.6	55.1	9.90 372	835	10 0.1
	13	7 22 20.51	30.13	21 48 3.5	55.0	9.89 537	856	9 56.7
	14	7 22 50.64	29.95	21 47 8.5	55.1	9.88 681	876	9 53.2
	15	7 23 20.59	29.77	21 46 13.4	55.1	9.87 805	897	9 49.8
	16	7 23 50.36	29.58	21 45 18.3	55.0	9.86 908	918	9 46.4
	17	7 24 19.94	29.38	+21 44 23.3	55.0	9.85 990	937	9 42.9
	18	7 24 49.32	29.19	21 43 28.3	55.0	9.85 053	958	9 39.5
	19	7 25 18.51	28.98	21 42 33.3	54.9	9.84 095	977	9 36.0
	20	7 25 47.49	28.78	21 41 38.4	54.8	9.83 118	997	9 32.6
	21	7 26 16.27	28.57	21 40 43.6	54.7	9.82 121	1 016	9 29.1
	22	7 26 44.84	28.35	21 39 48.9	54.6	9.81 105	1 035	9 25.7
	23	7 27 13.19	28.14	+21 38 54.3	54.5	9.80 070	1 055	9 22.2
	24	7 27 41.33	27.92	21 37 59.8	54.3	9.79 015	1 073	9 18.7
	25	7 28 9.25	27.69	21 37 5.5	54.2	9.77 942	1 092	9 15.2
	26	7 28 36.94	27.45	21 36 11.3	54.0	9.76 850	1 110	9 11.8
	27	7 29 4.39	27.23	21 35 17.3	53.8	9.75 740	1 128	9 8.3
	28	7 29 31.62	26.99	21 34 23.5	53.6	9.74 612	1 147	9 4.8
	29	7 29 58.61	26.74	+21 33 29.9	53.3	9.73 465	1 164	9 1.3
	30	7 30 25.35	26.49	21 32 36.6	53.1	9.72 301	1 182	8 57.8
	31	7 30 51.84	26.24	21 31 43.5	52.8	9.71 119	1 200	8 54.3
Sept.	1	7 31 18.08	25.98	21 30 50.7	52.5	9.69 919	1 217	8 50.8
	2	7 31 44.06	25.71	21 29 58.2	52.3	9.68 702	1 234	8 47.3
	3	7 32 9.77		+21 29 5.9		9.67 468		8 43.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945	h m s	s	° ′ ″	″			h m
Sept. 3	7 32 9.77	25.45	+21 29 5.9	51.9	9.67 468	1 250	8 43.8
4	7 32 35.22	25.17	21 28 14.0	51.5	9.66 218	1 267	8 40.3
5	7 33 0.39	24.89	21 27 22.5	51.1	9.64 951	1 283	8 36.8
6	7 33 25.28	24.61	21 26 31.4	50.8	9.63 668	1 299	8 33.3
7	7 33 49.89	24.32	21 25 40.6	50.4	9.62 369	1 315	8 29.8
8	7 34 14.21	24.02	21 24 50.2	50.0	9.61 054	1 330	8 26.2
9	7 34 38.23	23.73	+21 24 0.2	49.5	9.59 724	1 345	8 22.7
10	7 35 1.96	23.42	21 23 10.7	49.1	9.58 379	1 360	8 19.2
11	7 35 25.38	23.12	21 22 21.6	48.5	9.57 019	1 374	8 15.6
12	7 35 48.50	22.80	21 21 33.1	48.1	9.55 645	1 388	8 12.1
13	7 36 11.30	22.49	21 20 45.0	47.5	9.54 257	1 401	8 8.5
14	7 36 33.79	22.17	21 19 57.5	47.0	9.52 856	1 415	8 4.9
15	7 36 55.96	21.84	+21 19 10.5	46.5	9.51 441	1 428	8 1.4
16	7 37 17.80	21.52	21 18 24.0	45.8	9.50 013	1 441	7 57.8
17	7 37 39.32	21.18	21 17 38.2	45.3	9.48 572	1 453	7 54.2
18	7 38 0.50	20.85	21 16 52.9	44.7	9.47 119	1 465	7 50.6
19	7 38 21.35	20.51	21 16 8.2	44.0	9.45 654	1 476	7 47.1
20	7 38 41.86	20.17	21 15 24.2	43.4	9.44 178	1 488	7 43.5
21	7 39 2.03	19.82	+21 14 40.8	42.7	9.42 690	1 499	7 39.9
22	7 39 21.85	19.47	21 13 58.1	42.0	9.41 191	1 510	7 36.3
23	7 39 41.32	19.11	21 13 16.1	41.4	9.39 681	1 520	7 32.7
24	7 40 0.43	18.76	21 12 34.7	40.6	9.38 161	1 531	7 29.0
25	7 40 19.19	18.39	21 11 54.1	39.8	9.36 630	1 540	7 25.4
26	7 40 37.58	18.03	21 11 14.3	39.1	9.35 090	1 550	7 21.8
27	7 40 55.61	17.65	+21 10 35.2	38.3	9.33 540	1 558	7 18.1
28	7 41 13.26	17.28	21 9 56.9	37.5	9.31 982	1 568	7 14.5
29	7 41 30.54	16.90	21 9 19.4	36.7	9.30 414	1 576	7 10.9
30	7 41 47.44	16.51	21 8 42.7	35.9	9.28 838	1 584	7 7.2
Okt. 1	7 42 3.95	16.12	21 8 6.8	35.1	9.27 254	1 592	7 3.5
2	7 42 20.07	15.72	21 7 31.7	34.1	9.25 662	1 598	6 59.9
3	7 42 35.79	15.32	+21 6 57.6	33.2	9.24 064	1 606	6 56.2
4	7 42 51.11	14.92	21 6 24.4	32.4	9.22 458	1 612	6 52.5
5	7 43 6.03	14.52	21 5 52.0	31.5	9.20 846	1 618	6 48.8
6	7 43 20.55	14.11	21 5 20.5	30.5	9.19 228	1 623	6 45.1
7	7 43 34.66	13.69	21 4 50.0	29.5	9.17 605	1 628	6 41.4
8	7 43 48.35	13.27	21 4 20.5	28.6	9.15 977	1 633	6 37.7
9	7 44 1.62	12.84	+21 3 51.9	27.6	9.14 344	1 637	6 34.0
10	7 44 14.46	12.43	21 3 24.3	26.5	9.12 707	1 641	6 30.3
11	7 44 26.89	12.00	21 2 57.8	25.6	9.11 066	1 644	6 26.6
12	7 44 38.89	11.56	21 2 32.2	24.5	9.09 422	1 647	6 22.8
13	7 44 50.45	11.14	21 2 7.7	23.5	9.07 775	1 649	6 19.1
14	7 45 1.59		+21 1 44.2		9.06 126		6 15.4

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	″			h m
Okt.	14	7 45 1.59	10.69	+21 1 44.2	22.4	9.06 126	1 650	6 15.4
	15	7 45 12.28	10.26	21 1 21.8	21.4	9.04 476	1 652	6 11.6
	16	7 45 22.54	9.82	21 1 0.4	20.2	9.02 824	1 654	6 7.8
	17	7 45 32.36	9.38	21 0 40.2	19.2	9.01 170	1 653	6 4.1
	18	7 45 41.74	8.93	21 0 21.0	18.0	8.99 517	1 654	6 0.3
	19	7 45 50.67	8.48	21 0 3.0	17.0	8.97 863	1 653	5 56.5
	20	7 45 59.15	8.04	+20 59 46.0	15.8	8.96 210	1 652	5 52.7
	21	7 46 7.19	7.58	20 59 30.2	14.7	8.94 558	1 651	5 48.9
	22	7 46 14.77	7.13	20 59 15.5	13.5	8.92 907	1 650	5 45.1
	23	7 46 21.90	6.68	20 59 2.0	12.4	8.91 257	1 647	5 41.3
	24	7 46 28.58	6.21	20 58 49.6	11.2	8.89 610	1 645	5 37.5
	25	7 46 34.79	5.75	20 58 38.4	10.0	8.87 965	1 642	5 33.6
	26	7 46 40.54	5.29	+20 58 28.4	8.8	8.86 323	1 638	5 29.8
	27	7 46 45.83	4.83	20 58 19.6	7.6	8.84 685	1 634	5 25.9
	28	7 46 50.66	4.36	20 58 12.0	6.5	8.83 051	1 630	5 22.1
	29	7 46 55.02	3.88	20 58 5.5	5.2	8.81 421	1 625	5 18.2
	30	7 46 58.90	3.41	20 58 0.3	4.0	8.79 796	1 619	5 14.4
	31	7 47 2.31	2.94	20 57 56.3	2.8	8.78 177	1 614	5 10.5
Nov.	1	7 47 5.25	2.47	+20 57 53.5	1.6	8.76 563	1 607	5 6.6
	2	7 47 7.72	1.99	20 57 51.9	0.3	8.74 956	1 600	5 2.7
	3	7 47 9.71	1.51	20 57 51.6	0.9	8.73 356	1 592	4 58.8
	4	7 47 11.22	1.03	20 57 52.5	2.2	8.71 764	1 584	4 54.9
	5	7 47 12.25	0.56	20 57 54.7	3.4	8.70 180	1 575	4 51.0
	6	7 47 12.81	0.08	20 57 58.1	4.6	8.68 605	1 566	4 47.0
	7	7 47 12.89	0.40	+20 58 2.7	5.9	8.67 039	1 557	4 43.1
	8	7 47 12.49	0.87	20 58 8.6	7.2	8.65 482	1 546	4 39.2
	9	7 47 11.62	1.35	20 58 15.8	8.3	8.63 936	1 536	4 35.2
	10	7 47 10.27	1.82	20 58 24.1	9.6	8.62 400	1 524	4 31.3
	11	7 47 8.45	2.30	20 58 33.7	10.9	8.60 876	1 513	4 27.3
	12	7 47 6.15	2.77	20 58 44.6	12.1	8.59 363	1 500	4 23.3
	13	7 47 3.38	3.23	+20 58 56.7	13.3	8.57 863	1 487	4 19.4
	14	7 47 0.15	3.71	20 59 10.0	14.5	8.56 376	1 474	4 15.4
	15	7 46 56.44	4.17	20 59 24.5	15.7	8.54 902	1 461	4 11.4
	16	7 46 52.27	4.64	20 59 40.2	17.0	8.53 441	1 446	4 7.4
	17	7 46 47.63	5.10	20 59 57.2	18.1	8.51 995	1 431	4 3.4
	18	7 46 42.53	5.55	21 0 15.3	19.3	8.50 564	1 417	3 59.3
	19	7 46 36.98	6.01	+21 0 34.6	20.5	8.49 147	1 400	3 55.3
	20	7 46 30.97	6.47	21 0 55.1	21.7	8.47 747	1 385	3 51.3
	21	7 46 24.50	6.92	21 1 16.8	22.8	8.46 362	1 368	3 47.3
	22	7 46 17.58	7.37	21 1 39.6	24.0	8.44 994	1 352	3 43.2
	23	7 46 10.21	7.82	21 2 3.6	25.1	8.43 642	1 334	3 39.2
	24	7 46 2.39		+21 2 28.7		8.42 308		3 35.1

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	″			h m
Nov.	24	7 46 2.39	8.26	+21 2 28.7	26.3	8.42 308	1 316	3 35.1
	25	7 45 54.13	8.71	21 2 55.0	27.3	8.40 992	1 298	3 31.0
	26	7 45 45.42	9.14	21 3 22.3	28.5	8.39 694	1 279	3 26.9
	27	7 45 36.28	9.57	21 3 50.8	29.5	8.38 415	1 259	3 22.9
	28	7 45 26.71	10.01	21 4 20.3	30.7	8.37 156	1 239	3 18.8
	29	7 45 16.70	10.43	21 4 51.0	31.6	8.35 917	1 220	3 14.7
	30	7 45 6.27	10.86	+21 5 22.6	32.7	8.34 697	1 198	3 10.6
Dez.	1	7 44 55.41	11.27	21 5 55.3	33.8	8.33 499	1 177	3 6.5
	2	7 44 44.14	11.68	21 6 29.1	34.7	8.32 322	1 155	3 2.3
	3	7 44 32.46	12.08	21 7 3.8	35.7	8.31 167	1 133	2 58.2
	4	7 44 20.38	12.48	21 7 39.5	36.6	8.30 034	1 110	2 54.1
	5	7 44 7.90	12.87	21 8 16.1	37.7	8.28 924	1 088	2 49.9
	6	7 43 55.03	13.26	+21 8 53.8	38.5	8.27 836	1 063	2 45.8
	7	7 43 41.77	13.64	21 9 32.3	39.4	8.26 773	1 040	2 41.6
	8	7 43 28.13	14.00	21 10 11.7	40.3	8.25 733	1 015	2 37.5
	9	7 43 14.13	14.37	21 10 52.0	41.1	8.24 718	990	2 33.3
	10	7 42 59.76	14.72	21 11 33.1	41.9	8.23 728	965	2 29.1
	11	7 42 45.04	15.06	21 12 15.0	42.7	8.22 763	939	2 25.0
	12	7 42 29.98	15.41	+21 12 57.7	43.6	8.21 824	914	2 20.8
	13	7 42 14.57	15.73	21 13 41.3	44.2	8.20 910	887	2 16.6
	14	7 41 58.84	16.05	21 14 25.5	45.0	8.20 023	860	2 12.4
	15	7 41 42.79	16.37	21 15 10.5	45.6	8.19 163	834	2 8.2
	16	7 41 26.42	16.67	21 15 56.1	46.3	8.18 329	807	2 4.0
	17	7 41 9.75	16.96	21 16 42.4	46.9	8.17 522	779	1 59.8
	18	7 40 52.79	17.25	+21 17 29.3	47.5	8.16 743	752	1 55.6
	19	7 40 35.54	17.52	21 18 16.8	48.1	8.15 991	723	1 51.4
	20	7 40 18.02	17.79	21 19 4.9	48.6	8.15 268	695	1 47.1
	21	7 40 0.23	18.05	21 19 53.5	49.1	8.14 573	667	1 42.9
	22	7 39 42.18	18.30	21 20 42.6	49.7	8.13 906	638	1 38.7
	23	7 39 23.88	18.54	21 21 32.3	50.1	8.13 268	609	1 34.4
	24	7 39 5.34	18.77	+21 22 22.4	50.5	8.12 659	579	1 30.2
	25	7 38 46.57	19.00	21 23 12.9	50.9	8.12 080	549	1 26.0
	26	7 38 27.57	19.20	21 24 3.8	51.3	8.11 531	520	1 21.7
	27	7 38 8.37	19.40	21 24 55.1	51.6	8.11 011	490	1 17.5
	28	7 37 48.97	19.59	21 25 46.7	52.0	8.10 521	459	1 13.2
	29	7 37 29.38	19.77	21 26 38.7	52.2	8.10 062	428	1 8.9
	30	7 37 9.61	19.93	+21 27 30.9	52.5	8.09 634	398	1 4.7
	31	7 36 49.68	20.08	21 28 23.4	52.7	8.09 236	367	1 0.4
	32	7 36 29.60		+21 29 16.1		8.08 869		0 56.2

Uranus 1945

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	′ ″			h m
Jan.	−3	4 33 56.97	36.66	+21 56 18.4	1 12.8	18.40 004	3 192	22 4.8
	+1	33 20.31	34.59	55 5.6	1 9.1	43 196	3 624	21 48.5
	5	32 45.72	32.28	53 56.5	1 4.7	46 820	4 033	21 32.2
	9	32 13.44	29.70	52 51.8	0 59.5	50 853	4 427	21 16.0
	13	31 43.74	26.94	51 52.3	0 54.2	55 280	4 795	20 59.7
	17	4 31 16.80	23.96	+21 50 58.1	0 48.1	18.60 075	5 131	20 43.6
	21	30 52.84	20.84	50 10.0	0 41.5	65 206	5 437	20 27.5
	25	30 32.00	17.59	49 28.5	0 34.7	70 643	5 715	20 11.4
	29	30 14.41	14.22	48 53.8	0 27.9	76 358	5 964	19 55.4
Febr.	2	30 0.19	10.78	48 25.9	0 20.3	82 322	6 180	19 39.4
	6	4 29 49.41	7.24	+21 48 5.6	0 12.8	18.88 502	6 367	19 23.6
	10	29 42.17	3.63	47 52.8	0 5.0	18.94 869	6 520	19 7.7
	14	29 38.54	0.02	47 47.8	0 2.8	19.01 389	6 637	18 51.9
	18	29 38.56	3.67	47 50.6	0 10.6	08 026	6 718	18 36.2
	22	29 42.23	7.30	48 1.2	0 18.4	14 744	6 767	18 20.6
	26	4 29 49.53	10.89	+21 48 19.6	0 26.1	19.21 511	6 783	18 5.0
März	2	30 0.42	14.45	48 45.7	0 33.5	28 294	6 771	17 49.4
	6	30 14.87	17.95	49 19.2	0 40.8	35 065	6 724	17 34.0
	10	30 32.82	21.39	50 0.0	0 48.2	41 789	6 647	17 18.5
	14	30 54.21	24.76	50 48.2	0 55.0	48 436	6 537	17 3.2
	18	4 31 18.97	28.01	+21 51 43.2	1 1.7	19.54 973	6 396	16 47.9
	22	31 46.98	31.15	52 44.9	1 7.7	61 369	6 229	16 32.6
	26	32 18.13	34.13	53 52.6	1 13.5	67 598	6 032	16 17.4
	30	32 52.26	37.00	55 6.1	1 19.1	73 630	5 815	16 2.3
April	3	33 29.26	39.74	56 25.2	1 24.0	79 445	5 571	15 47.2
	7	4 34 9.00	42.35	+21 57 49.2	1 28.8	19.85 016	5 306	15 32.1
	11	34 51.35	44.81	+21 59 18.0	1 32.8	90 322	5 016	15 17.1
	15	35 36.16	47.09	+22 0 50.8	1 36.7	19.95 338	4 705	15 2.1
	19	36 23.25	49.19	2 27.5	1 39.9	20.00 043	4 374	14 47.2
	23	37 12.44	51.13	4 7.4	1 42.7	04 417	4 030	14 32.3
	27	4 38 3.57	52.89	+22 5 50.1	1 45.0	20.08 447	3 672	14 17.4
Mai	1	38 56.46	54.50	7 35.1	1 47.0	12 119	3 302	14 2.5
	5	39 50.96	55.93	9 22.1	1 48.5	15 421	2 915	13 47.7
	9	40 46.89	57.19	11 10.6	1 49.6	18 336	2 518	13 32.9
	13	41 44.08	58.25	13 0.2	1 50.3	20 854	2 110	13 18.2
	17	4 42 42.33	59.11	+22 14 50.5	1 50.5	20.22 964	1 696	13 3.4
	21	43 41.44	59.78	16 41.0	1 50.3	24 660	1 278	12 48.6
	25	44 41.22	60.29	18 31.3	1 49.7	25 938	856	12 33.9
	29	45 41.51	60.62	20 21.0	1 48.9	26 794	432	12 19.2
Juni	2	46 42.13	60.76	22 9.9	1 47.8	27 226	8	12 4.5
	6	4 47 42.89	60.74	+22 23 57.7	1 46.1	20.27 234	421	11 49.7
	10	48 43.63	60.50	25 43.8	1 44.4	26 813	849	11 35.0
	14	49 44.13	60.07	27 28.2	1 42.2	25 964	1 269	11 20.3
	18	50 44.20	59.46	29 10.4	1 39.8	24 695	1 686	11 5.6
	22	51 43.66	58.67	30 50.2	1 37.1	23 009	2 093	10 50.8
	26	52 42.33	57.72	32 27.3	1 34.1	20 916	2 493	10 36.1
	30	4 53 40.05		+22 34 1.4		20.18 423		10 21.3

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	′ ″			h m
Juni	30	4 53 40.05	56.60	+22 34 1.4	1 31.2	20.18 423	2 885	10 21.3
Juli	4	54 36.65	55.29	35 32.6	1 28.0	15 538	3 266	10 6.5
	8	55 31.94	53.81	37 0.6	1 24.5	12 272	3 641	9 51.7
	12	56 25.75	52.12	38 25.1	1 20.7	08 631	3 996	9 36.8
	16	57 17.87	50.28	39 45.8	1 17.1	04 635	4 338	9 22.0
	20	4 58 8.15	48.27	+22 41 2.9	1 13.2	20.00 297	4 658	9 7.1
	24	58 56.42	46.14	42 16.1	1 9.1	19.95 639	4 964	8 52.2
	28	4 59 42.56	43.84	43 25.2	1 5.0	90 675	5 250	8 37.2
Aug.	1	5 0 26.40	41.39	44 30.2	1 0.7	85 425	5 521	8 22.2
	5	1 7.79	38.77	45 30.9	0 56.6	79 904	5 769	8 7.1
	9	5 1 46.56	36.00	+22 46 27.5	0 52.2	19.74 135	5 992	7 52.1
	13	2 22.56	33.11	47 19.7	0 47.9	68 143	6 190	7 36.9
	17	2 55.67	30.11	48 7.6	0 43.1	61 953	6 361	7 21.7
	21	3 25.78	27.00	48 50.7	0 38.7	55 592	6 508	7 6.5
	25	3 52.78	23.79	49 29.4	0 34.2	49 084	6 630	6 51.2
	29	5 4 16.57	20.48	+22 50 3.6	0 29.5	19.42 454	6 722	6 35.9
Sept.	2	4 37.05	17.08	50 33.1	0 25.0	35 732	6 790	6 20.5
	6	4 54.13	13.58	50 58.1	0 20.3	28 942	6 824	6 5.0
	10	5 7.71	10.06	51 18.4	0 15.7	22 118	6 828	5 49.5
	14	5 17.77	6.49	51 34.1	0 10.8	15 290	6 796	5 34.0
	18	5 5 24.26	2.91	+22 51 44.9	0 6.1	19.08 494	6 736	5 18.4
	22	5 27.17	$\overline{0.66}$	51 51.0	0 1.8	19.01 758	6 649	5 2.7
	26	5 26.51	4.24	51 52.8	$\overline{0\ 2.9}$	18.95 109	6 528	4 46.9
	30	5 22.27	7.81	51 49.9	0 7.9	88 581	6 378	4 31.1
Okt.	4	5 14.46	11.32	51 42.0	0 12.4	82 203	6 193	4 15.3
	8	5 5 3.14	14.77	+22 51 29.6	0 16.9	18.76 010	5 974	3 59.4
	12	4 48.37	18.11	51 12.7	0 21.5	70 036	5 729	3 43.4
	16	4 30.26	21.31	50 51.2	0 25.9	64 307	5 452	3 27.3
	20	4 8.95	24.39	50 25.3	0 30.0	58 855	5 147	3 11.3
	24	3 44.56	27.32	49 55.3	0 34.4	53 708	4 819	2 55.1
	28	5 3 17.24	30.09	+22 49 20.9	0 38.3	18.48 889	4 463	2 39.0
Nov.	1	2 47.15	32.67	48 42.6	0 42.5	44 426	4 078	2 22.7
	5	2 14.48	35.01	48 0.1	0 46.1	40 348	3 673	2 6.5
	9	1 39.47	37.12	47 14.0	0 49.5	36 675	3 245	1 50.1
	13	1 2.35	38.93	46 24.5	0 52.5	33 430	2 797	1 33.8
	17	5 0 23.42	40.50	+22 45 32.0	0 55.6	18.30 633	2 340	1 17.4
	21	4 59 42.92	41.79	44 36.4	0 58.1	28 293	1 867	1 1.0
	25	59 1.13	42.82	43 38.3	1 0.0	26 426	1 382	0 44.6
	29	58 18.31	43.52	42 38.3	1 2.1	25 044	888	0 28.2
Dez.	3	57 34.79	43.90	41 36.2	1 3.4	24 156	386	0 11.7
	7	4 56 50.89	43.96	+22 40 32.8	1 4.3	18.23 770	$\overline{119}$	23 51.1
	11	56 6.93	43.70	39 28.5	1 4.6	23 889	622	23 34.7
	15	55 23.23	43.12	38 23.9	1 4.5	24 511	1 117	23 18.2
	19	54 40.11	42.23	37 19.4	1 3.8	25 628	1 608	23 1.8
	23	53 57.88	41.07	36 15.6	1 2.7	27 236	2 091	22 45.4
	27	53 16.81	39.62	35 12.9	1 1.0	29 327	2 565	22 29.0
	31	4 52 37.19		+22 34 11.9		18.31 892		22 12.6

Neptun 1945

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	′ ″			h m
Jan.	−3	12 25 45.96	4.77	−1 14 2.1	0 16.2	30.25 995	6 938	5 59.4
	+1	25 50.73	2.74	14 18.3	0 3.2	19 057	6 907	5 43.8
	5	25 53.47	0.72	14 21.5	0 9.9	12 150	6 843	5 28.1
	9	25 54.19	1.30	14 11.6	0 22.8	30.05 307	6 742	5 12.4
	13	25 52.89	3.32	13 48.8	0 35.6	29.98 565	6 609	4 56.6
	17	12 25 49.57	5.29	−1 13 13.2	0 48.1	29.91 956	6 438	4 40.9
	21	25 44.28	7.21	12 25.1	1 0.3	85 518	6 237	4 25.0
	25	25 37.07	9.08	11 24.8	1 11.9	79 281	6 003	4 9.2
	29	25 27.99	10.88	10 12.9	1 23.1	73 278	5 741	3 53.3
Febr.	2	25 17.11	12.60	8 49.8	1 33.6	67 537	5 451	3 37.4
	6	12 25 4.51	14.25	−1 7 16.2	1 43.8	29.62 086	5 131	3 21.5
	10	24 50.26	15.81	5 32.4	1 53.2	56 955	4 788	3 5.5
	14	24 34.45	17.25	3 39.2	2 1.9	52 167	4 413	2 49.5
	18	24 17.20	18.58	−1 1 37.3	2 9.7	47 754	4 019	2 33.5
	22	23 58.62	19.76	−0 59 27.6	2 16.7	43 735	3 608	2 17.5
	26	12 23 38.86	20.82	−0 57 10.9	2 22.7	29.40 127	3 177	2 1.4
März	2	23 18.04	21.77	54 48.2	2 27.9	36 950	2 735	1 45.3
	6	22 56.27	22.56	52 20.3	2 32.2	34 215	2 278	1 29.2
	10	22 33.71	23.22	49 48.1	2 35.7	31 937	1 807	1 13.1
	14	22 10.49	23.71	47 12.4	2 37.9	30 130	1 328	0 57.1
	18	12 21 46.78	24.05	−0 44 34.5	2 39.2	29.28 802	842	0 40.9
	22	21 22.73	24.23	41 55.3	2 39.4	27 960	358	0 24.8
	26	20 58.50	24.26	39 15.9	2 38.6	27 602	126	0 8.7
	30	20 34.24	24.14	36 37.3	2 36.9	27 728	607	23 48.5
April	3	20 10.10	23.87	34 0.4	2 34.3	28 335	1 085	23 32.4
	7	12 19 46.23	23.47	−0 31 26.1	2 30.6	29.29 420	1 556	23 16.2
	11	19 22.76	22.90	28 55.5	2 26.3	30 976	2 022	23 0.1
	15	18 59.86	22.19	26 29.2	2 20.8	32 998	2 474	22 44.0
	19	18 37.67	21.34	24 8.4	2 14.4	35 472	2 909	22 27.9
	23	18 16.33	20.37	21 54.0	2 7.2	38 381	3 326	22 11.9
	27	12 17 55.96	19.28	−0 19 46.8	1 59.5	29.41 707	3 725	21 55.8
Mai	1	17 36.68	18.08	17 47.3	1 51.0	45 432	4 108	21 39.8
	5	17 18.60	16.78	15 56.3	1 41.8	49 540	4 470	21 23.7
	9	17 1.82	15.37	14 14.5	1 32.0	54 010	4 812	21 7.7
	13	16 46.45	13.86	12 42.5	1 21.8	58 822	5 126	20 51.8
	17	12 16 32.59	12.27	−0 11 20.7	1 10.8	29.63 948	5 412	20 35.8
	21	16 20.32	10.62	10 9.9	0 59.7	69 360	5 673	20 19.9
	25	16 9.70	8.91	9 10.2	0 48.1	75 033	5 904	20 4.0
	29	16 0.79	7.15	8 22.1	0 36.4	80 937	6 111	19 48.1
Juni	2	15 53.64	5.35	7 45.7	0 24.4	87 048	6 289	19 32.3
	6	12 15 48.29	3.51	−0 7 21.3	0 12.1	29.93 337	6 440	19 16.5
	10	15 44.78	1.61	7 9.2	0 0.2	29.99 777	6 558	19 0.7
	14	15 43.17	0.27	7 9.4	0 12.7	30.06 335	6 644	18 44.9
	18	15 43.44	2.18	7 22.1	0 25.0	12 979	6 698	18 29.2
	22	15 45.62	4.06	7 47.1	0 37.3	19 677	6 725	18 13.5
	26	15 49.68	5.93	8 24.4	0 49.4	26 402	6 724	17 57.9
	30	12 15 55.61		−0 9 13.8		30.33 126		17 42.3

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1945		h m s	s	° ′ ″	′ ″			h m
Juni	30	12 15 55.61	7.81	—0 9 13.8	1 1.4	30.33 126	6 692	17 42.3
Juli	4	16 3.42	9.66	10 15.2	1 13.4	39 818	6 633	17 26.7
	8	16 13.08	11.48	11 28.6	1 24.9	46 451	6 543	17 11.1
	12	16 24.56	13.28	12 53.5	1 36.3	52 994	6 421	16 55.6
	16	16 37.84	15.00	14 29.8	1 47.1	59 415	6 272	16 40.1
	20	12 16 52.84	16.68	—0 16 16.9	1 57.8	30.65 687	6 098	16 24.6
	24	17 9.52	18.30	18 14.7	2 7.8	71 785	5 898	16 9.2
	28	17 27.82	19.86	20 22.5	2 17.4	77 683	5 672	15 53.7
Aug.	1	17 47.68	21.35	22 39.9	2 26.6	83 355	5 427	15 38.3
	5	18 9.03	22.79	25 6.5	2 35.4	88 782	5 154	15 23.0
	9	12 18 31.82	24.15	—0 27 41.9	2 43.6	30.93 936	4 855	15 7.6
	13	18 55.97	25.40	30 25.5	2 51.1	30.98 791	4 537	14 52.3
	17	19 21.37	26.57	33 16.6	2 58.2	31.03 328	4 202	14 37.0
	21	19 47.94	27.65	36 14.8	3 4.4	07 530	3 847	14 21.7
	25	20 15.59	28.63	39 19.2	3 10.0	11 377	3 477	14 6.4
	29	12 20 44.22	29.54	—0 42 29.2	3 15.1	31.14 854	3 094	13 51.2
Sept.	2	21 13.76	30.34	45 44.3	3 19.5	17 948	2 692	13 36.0
	6	21 44.10	31.03	49 3.8	3 23.4	20 640	2 279	13 20.7
	10	22 15.13	31.61	52 27.2	3 26.3	22 919	1 850	13 5.5
	14	22 46.74	32.09	55 53.5	3 28.4	24 769	1 418	12 50.3
	18	12 23 18.83	32.43	—0 59 21.9	3 29.9	31.26 187	980	12 35.1
	22	23 51.26	32.69	—1 2 51.8	3 30.6	27 167	535	12 19.9
	26	24 23.95	32.82	6 22.4	3 30.7	27 702	89	12 4.8
	30	24 56.77	32.86	9 53.1	3 30.0	27 791	$\overline{365}$	11 49.6
Okt.	4	25 29.63	32.76	13 23.1	3 28.5	27 426	818	11 34.4
	8	12 26 2.39	32.56	—1 16 51.6	3 26.5	31.26 608	1 269	11 19.2
	12	26 34.95	32.21	20 18.1	3 23.3	25 339	1 716	11 4.0
	16	27 7.16	31.76	23 41.4	3 19.4	23 623	2 152	10 48.8
	20	27 38.92	31.19	27 0.8	3 14.9	21 471	2 583	10 33.6
	24	28 10.11	30.52	30 15.7	3 9.9	18 888	3 003	10 18.4
	28	12 28 40.63	29.73	—1 33 25.6	3 3.9	31.15 885	3 415	10 3.2
Nov.	1	29 10.36	28.83	36 29.5	2 57.4	12 470	3 813	9 48.0
	5	29 39.19	27.81	39 26.9	2 49.9	08 657	4 196	9 32.7
	9	30 7.00	26.67	42 16.8	2 41.9	31.04 461	4 559	9 17.4
	13	30 33.67	25.44	44 58.7	2 33.2	30.99 902	4 901	9 2.1
	17	12 30 59.11	24.09	—1 47 31.9	2 24.1	30.95 001	5 222	8 46.8
	21	31 23.20	22.68	49 56.0	2 14.2	89 779	5 519	8 31.5
	25	31 45.88	21.18	52 10.2	2 3.9	84 260	5 796	8 16.2
	29	32 7.06	19.57	54 14.1	1 53.2	78 464	6 045	8 0.8
Dez.	3	32 26.63	17.88	56 7.3	1 41.7	72 419	6 268	7 45.4
	7	12 32 44.51	16.10	—1 57 49.0	1 30.0	30.66 151	6 461	7 29.9
	11	33 0.61	14.29	—1 59 19.0	1 17.9	59 690	6 619	7 14.5
	15	33 14.90	12.40	—2 0 36.9	1 5.4	53 071	6 747	6 59.0
	19	33 27.30	10.48	1 42.3	0 52.9	46 324	6 844	6 43.5
	23	33 37.78	8.51	2 35.2	0 40.0	39 480	6 911	6 27.9
	27	33 46.29	6.52	3 15.2	0 27.1	32 569	6 944	6 12.3
	31	12 33 52.81		—2 3 42.3		30.25 625		5 56.7

Pluto 1945

Tag	0ʰ Welt-Zeit									Obere Kulmination in Greenwich
	Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	Δ		Lichtzeit	
1945	h m s	s	s	° ′ ″	″	″			d	h m
Jan. −3	8 56 14.84	18.35	+1.17	+23 31 59.9	113.3	−5.9	36.80 094	3 902	0.2123	2 30
+1	55 56.49	19.40	1.22	33 53.2	114.8	6.0	76 192	3 473	2121	2 14
5	55 37.09	20.31	1.28	35 48.0	115.6	6.0	72 719	3 028	2119	1 58
9	55 16.78	21.12	1.32	37 43.6	115.9	6.0	69 691	2 567	2117	1 42
13	54 55.66	21.78	1.36	39 39.5	115.3	6.0	67 124	2 090	2115	1 26
17	8 54 33.88	22.30	+1.39	+23 41 34.8	114.3	−6.0	36.65 034	1 605	0.2114	1 10
21	54 11.58	22.66	1.41	43 29.1	112.5	5.9	63 429	1 116	2113	0 54
25	53 48.92	22.88	1.43	45 21.6	110.2	5.8	62 313	624	2113	0 38
29	53 26.04	22.97	1.43	47 11.8	107.2	5.6	61 689	132	2112	0 22
Febr. 2	53 3.07	22.92	1.44	48 59.0	103.8	5.5	61 557	359	2112	0 6
6	8 52 40.15	22.72	+1.43	+23 50 42.8	99.8	−5.3	36.61 916	848	0.2112	23 45
10	52 17.43	22.38	1.41	52 22.6	95.2	5.0	62 764	1 332	2113	23 29
14	51 55.05	21.88	1.39	53 57.8	90.3	4.8	64 096	1 805	2114	23 13
18	51 33.17	21.25	1.36	55 28.1	84.7	4.5	65 901	2 265	2115	22 57
22	51 11.92	20.48	1.33	56 52.8	78.8	4.2	68 166	2 708	2116	22 41
26	8 50 51.44	19.59	+1.28	+23 58 11.6	72.6	−3.9	36.70 874	3 134	0.2117	22 25
März 2	50 31.85	18.60	1.23	+23 59 24.2	66.2	3.5	74 008	3 542	.2119	22 9
6	50 13.25	17.49	1.18	+24 0 30.4	59.3	3.2	77 550	3 932	2121	21 53
10	49 55.76	16.27	1.12	1 29.7	52.3	2.8	81 482	4 300	2124	21 37
14	49 39.49	14.93	1.05	2 22.0	45.0	2.4	85 782	4 643	2126	21 21
18	8 49 24.56	13.51	+0.98	+24 3 7.0	37.6	−2.1	36.90 425	4 958	0.2129	21 5
22	49 11.05	12.02	0.90	3 44.6	30.1	1.7	36.95 383	5 244	2132	20 49
26	48 59.03	10.46	0.82	4 14.7	22.5	1.3	37.00 627	5 501	2135	20 33
30	48 48.57	8.84	0.74	4 37.2	15.0	0.9	06 128	5 731	2138	20 17
April 3	48 39.73	7.17	0.65	4 52.2	7.4	0.5	11 859	5 934	2141	20 1
7	8 48 32.56	5.46	+0.56	+24 4 59.6	0.2	−0.1	37.17 793	6 105	0.2145	19 45
11	48 27.10	3.69	0.47	4 59.4	7.7	+0.4	23 898	6 246	2148	19 29
15	48 23.41	1.90	0.37	4 51.7	15.0	0.8	30 144	6 351	2152	19 13
19	48 21.51	0.11	0.28	4 36.7	22.2	1.2	36 495	6 425	2155	18 58
23	48 21.40	1.68	0.18	4 14.5	29.3	1.5	42 920	6 466	2159	18 42
27	8 48 23.08	3.47	+0.08	+24 3 45.2	36.1	+1.9	37.49 386	6 479	0.2163	18 26
Mai 1	48 26.55	5.25	−0.02	3 9.1	42.7	2.3	55 865	6 461	2166	18 11
5	48 31.80	7.01	0.11	2 26.4	49.1	2.6	62 326	6 415	2170	17 56
9	48 38.81	8.76	0.21	1 37.3	55.2	3.0	68 741	6 336	2174	17 40
13	48 47.57	10.48	0.30	+24 0 42.1	61.1	3.3	75 077	6 227	2178	17 25
17	8 48 58.05	12.15	−0.40	+23 59 41.0	66.7	+3.6	37.81 304	6 087	0.2181	17 9
21	49 10.20	13.76	0.49	58 34.3	71.8	3.9	87 391	5 920	2185	16 54
25	49 23.96	15.31	0.58	57 22.5	76.8	4.2	93 311	5 728	2188	16 38
29	49 39.27	16.82	0.66	56 5.7	81.3	4.5	37.99 039	5 512	2191	16 23
Juni 2	49 56.09	18.27	0.74	54 44.4	85.5	4.7	38.04 551	5 272	2195	16 7
6	8 50 14.36	19.65	−0.82	+23 53 18.9	89.4	+4.9	38.09 823	5 007	0.2198	15 52
10	50 34.01	20.96	0.90	51 49.5	92.8	5.1	14 830	4 718	2201	15 36
14	50 54.97	22.18	0.97	50 16.7	96.0	5.3	19 548	4 406	2203	15 20
18	51 17.15	23.32	1.04	48 40.7	98.6	5.5	23 954	4 077	2206	15 5
22	51 40.47	24.37	1.10	47 2.1	100.9	5.6	28 031	3 731	2208	14 49
26	8 52 4.84	25.33	−1.15	+23 45 21.2	102.7	+5.7	38.31 762	3 370	0.2210	14 34
30	52 30.17	26.22	1.21	43 38.5	104.2	5.8	35 132	2 994	2212	14 19
Juli 4	8 52 56.39		−1.25	+23 41 54.3		+5.9	38.38 126		0.2214	14 4

Tag		0h Welt-Zeit: Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	Δ		Lichtzeit	Obere Kulmination in Greenwich
1945		h m s	s	s	° ′ ″	″	″			d	h m
Juni	30	8 52 30.17	26.22	−1.21	+23 43 38.5	104.2	+5.8	38.35 132	2 994	0.2212	14 19
Juli	4	52 56.39	27.02	1.25	41 54.3	105.4	5.9	38 126	2 603	2214	14 4
	8	53 23.41	27.71	1.30	40 8.9	106.0	6.0	40 729	2 197	2215	13 48
	12	53 51.12	28.30	1.33	38 22.9	106.2	6.0	42 926	1 781	2217	13 33
	16	54 19.42	28.79	1.36	36 36.7	106.0	6.0	44 707	1 357	2218	13 18
	20	8 54 48.21	29.18	−1.39	+23 34 50.7	105.3	+6.0	38.46 064	928	0.2219	13 3
	24	55 17.39	29.47	1.41	33 5.4	104.3	5.9	46 992	494	2219	12 47
	28	55 46.86	29.66	1.42	31 21.1	102.8	5.8	47 486	57	2219	12 32
Aug.	1	56 16.52	29.75	1.43	29 38.3	100.8	5.7	47 543	384	2219	12 17
	5	56 46.27	29.74	1.43	27 57.5	98.6	5.6	47 159	827	2219	12 2
	9	8 57 16.01	29.61	−1.43	+23 26 18.9	95.8	+5.5	38.46 332	1 270	0.2219	11 46
	13	57 45.62	29.38	1.42	24 43.1	92.6	5.3	45 062	1 707	2218	11 31
	17	58 15.00	29.04	1.40	23 10.5	89.0	5.1	43 355	2 138	2217	11 16
	21	58 44.04	28.60	1.38	21 41.5	85.0	4.9	41 217	2 560	2216	11 1
	25	59 12.64	28.06	1.35	20 16.5	80.6	4.7	38 657	2 975	2214	10 45
	29	8 59 40.70	27.44	−1.31	+23 18 55.9	75.8	+4.4	38.35 682	3 382	0.2213	10 30
Sept.	2	9 0 8.14	26.70	1.27	17 40.1	70.7	4.1	32 300	3 778	2211	10 15
	6	0 34.84	25.86	1.23	16 29.4	65.2	3.8	28 522	4 160	2208	10 0
	10	1 0.70	24.92	1.18	15 24.2	59.3	3.5	24 362	4 526	2206	9 44
	14	1 25.62	23.88	1.12	14 24.9	53.1	3.2	19 836	4 872	2203	9 29
	18	9 1 49.50	22.76	−1.06	+23 13 31.8	46.6	+2.8	38.14 964	5 197	0.2201	9 14
	22	2 12.26	21.57	1.00	12 45.2	39.9	2.4	09 767	5 504	2198	8 59
	26	2 33.83	20.28	0.93	12 5.3	32.9	2.1	38.04 263	5 791	2194	8 43
	30	2 54.11	18.92	0.85	11 32.4	25.5	1.7	37.98 472	6 056	2191	8 28
Okt.	4	3 13.03	17.46	0.77	11 6.9	18.1	1.2	92 416	6 295	2188	8 13
	8	9 3 30.49	15.95	−0.69	+23 10 48.8	10.4	+0.8	37.86 121	6 506	0.2184	7 57
	12	3 46.44	14.35	0.60	10 38.4	2.7	+0.4	79 615	6 687	2180	7 42
	16	4 0.79	12.72	0.52	10 35.7	5.3	0.0	72 928	6 840	2176	7 26
	20	4 13.51	11.03	0.42	10 41.0	13.2	−0.5	66 088	6 962	2172	7 11
	24	4 24.54	9.31	0.33	10 54.2	21.2	0.9	59 126	7 056	2168	6 55
	28	9 4 33.85	7.54	−0.23	+23 11 15.4	29.1	−1.3	37.52 070	7 121	0.2164	6 40
Nov.	1	4 41.39	5.72	0.14	11 44.5	37.0	1.8	44 949	7 151	2160	6 24
	5	4 47.11	3.89	−0.04	12 21.5	44.9	2.2	37 798	7 148	2156	6 9
	9	4 51.00	2.05	+0.06	13 6.4	52.6	2.6	30 650	7 109	2152	5 53
	13	4 53.05	0.20	0.16	13 59.0	60.0	3.0	23 541	7 036	2148	5 37
	17	9 4 53.25	1.63	+0.26	+23 14 59.0	67.1	−3.4	37.16 505	6 930	0.2144	5 21
	21	4 51.62	3.44	0.36	16 6.1	74.1	3.7	09 575	6 794	2140	5 5
	25	4 48.18	5.24	0.46	17 20.2	80.7	4.1	37.02 781	6 627	2136	4 50
	29	4 42.94	7.02	0.55	18 40.9	86.9	4.4	36.96 154	6 426	2132	4 34
Dez.	3	4 35.92	8.74	0.64	20 7.8	92.7	4.7	89 728	6 190	2128	4 18
	7	9 4 27.18	10.41	+0.73	+23 21 40.5	98.1	−5.0	36.83 538	5 924	0.2125	4 2
	11	4 16.77	12.01	0.82	23 18.6	102.9	5.3	77 614	5 627	2121	3 46
	15	4 4.76	13.52	0.90	25 1.5	107.1	5.5	71 987	5 304	2118	3 30
	19	3 51.24	14.95	0.98	26 48.6	110.8	5.7	66 683	4 957	2115	3 14
	23	3 36.29	16.30	1.05	28 39.4	114.0	5.9	61 726	4 586	2112	2 58
	27	9 3 19.99	17.56	+1.12	+23 30 33.4	116.4	−6.0	36.57 140	4 190	0.2110	2 42
	31	3 2.43	18.69	1.18	32 29.8	118.4	6.1	52 950	3 773	2107	2 26
	35	9 2 43.74		+1.24	+23 34 28.2		−6.2	36.49 177		0.2105	2 10

0h Welt-Zeit	Mittleres Äquinoktium 1950.0 X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Jan. 0	+0.158 569	+17 229	− 49	0	−0.890 272	+ 2 736	+276	+1	−0.386 112	+1 187	+119	−4
1	0.175 798	17 175	54	+1	0.887 536	3 010	274	−4	0.384 925	1 306	119	−2
2	0.192 973	17 117	58	+4	0.884 526	3 285	275	+3	0.383 619	1 425	119	+1
3	0.210 090	17 052	65	−1	0.881 241	3 559	274	+5	0.382 194	1 544	119	+4
4	0.227 142	16 983	69	+3	0.877 682	3 832	273	+5	0.380 650	1 663	119	+4
5	0.244 125	16 909	74	+4	0.873 850	4 104	272	+4	0.378 987	1 780	117	−4
6	+0.261 034	+16 829	− 80	+1	−0.869 746	+ 4 375	+271	+4	−0.377 207	+1 897	+117	−3
7	0.277 863	16 744	85	−1	0.865 371	4 645	270	+3	0.375 310	2 014	117	0
8	0.294 607	16 653	91	−2	0.860 726	4 913	268	0	0.373 296	2 131	117	+4
9	0.311 260	16 558	95	+1	0.855 813	5 181	268	+3	0.371 165	2 246	115	0
10	0.327 818	16 456	102	−3	0.850 632	5 447	266	+1	0.368 919	2 362	116	+5
11	0.344 274	16 350	106	+1	0.845 185	5 710	263	−4	0.366 557	2 476	114	+1
12	+0.360 624	+16 238	−112	+1	−0.839 475	+ 5 974	+264	+5	−0.364 081	+2 591	+115	+4
13	0.376 862	16 121	117	−1	0.833 501	6 234	260	+2	0.361 490	2 703	112	−4
14	0.392 983	15 997	124	−5	0.827 267	6 493	259	+5	0.358 787	2 815	112	−4
15	0.408 980	15 870	127	+1	0.820 774	6 750	257	+5	0.355 972	2 927	112	−1
16	0.424 850	15 736	134	−4	0.814 024	7 004	254	+1	0.353 045	3 036	109	−4
17	0.440 586	15 597	139	−2	0.807 020	7 255	251	−4	0.350 009	3 146	110	+4
18	+0.456 183	+15 455	−142	+4	−0.799 765	+ 7 503	+248	−3	−0.346 863	+3 254	+108	+5
19	0.471 638	15 306	149	−4	0.792 262	7 750	247	+3	0.343 609	3 361	107	+5
20	0.486 944	15 153	153	−4	0.784 512	7 993	243	−1	0.340 248	3 467	106	+4
21	0.502 097	14 995	158	−4	0.776 519	8 233	240	−2	0.336 781	3 571	104	0
22	0.517 092	14 834	161	+2	0.768 286	8 470	237	−3	0.333 210	3 674	103	−2
23	0.531 926	14 668	166	0	0.759 816	8 705	235	+1	0.329 536	3 776	102	−2
24	+0.546 594	+14 498	−170	+1	−0.751 111	+ 8 936	+231	−2	−0.325 760	+3 876	+100	−4
25	0.561 092	14 324	174	−1	0.742 175	9 165	229	0	0.321 884	3 975	99	−2
26	0.575 416	14 145	179	−4	0.733 010	9 390	225	−2	0.317 909	4 074	99	+3
27	0.589 561	13 964	181	+2	0.723 620	9 614	224	+3	0.313 835	4 170	96	−4
28	0.603 525	13 777	187	−3	0.714 006	9 833	219	−3	0.309 665	4 265	95	−3
29	0.617 302	13 588	189	+2	0.704 173	10 050	217	0	0.305 400	4 360	95	0
30	+0.630 890	+13 393	−195	−4	−0.694 123	+10 265	+215	+4	−0.301 040	+4 452	+ 92	−4
31	0.644 283	13 196	197	+2	0.683 858	10 476	211	+2	0.296 588	4 544	92	−1
Febr. 1	0.657 479	12 993	203	−3	0.673 382	10 684	208	0	0.292 044	4 633	89	−4
2	0.670 472	12 789	204	+4	0.662 698	10 889	205	0	0.287 411	4 723	90	+4
3	0.683 261	12 578	211	−5	0.651 809	11 091	202	+1	0.282 688	4 810	87	+1
4	0.695 839	12 364	214	−3	0.640 718	11 289	198	−1	0.277 878	4 896	86	+1
5	+0.708 203	+12 148	−216	+4	−0.629 429	+11 485	+196	+5	−0.272 982	+4 981	+ 85	+2
6	0.720 351	11 926	222	−4	0.617 944	11 677	192	+1	0.268 001	5 063	82	−1
7	0.732 277	11 700	226	−5	0.606 267	11 864	187	−3	0.262 938	5 146	83	+4
8	0.743 977	11 472	228	+3	0.594 403	12 050	186	+5	0.257 792	5 225	79	−3
9	0.755 449	+11 239	233	+1	0.582 353	+12 230	180	0	0.252 567	+5 304	79	−1
10	+0.766 688		−236	+3	−0.570 123		+178	+4	−0.247 263		+ 76	−4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0 X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Febr. 10	+0.766 688	+11 003	−236	+3	−0.570 123	+12 408	+178	+4	−0.247 263	+5 380	+76	−4
11	0.777 691	10 763	240	0	0.557 715	12 580	172	−2	0.241 883	5 455	75	0
12	0.788 454	10 518	245	−5	0.545 135	12 749	169	+3	0.236 428	5 529	74	+5
13	0.798 972	10 272	246	+4	0.532 386	12 914	165	+4	0.230 899	5 600	71	+3
14	0.809 244	10 022	250	+1	0.519 472	13 074	160	0	0.225 299	5 670	70	+4
15	0.819 266	9 768	254	−5	0.506 398	13 229	155	−2	0.219 629	5 737	67	+1
16	+0.829 034	+ 9 512	−256	−3	−0.493 169	+13 380	+151	−1	−0.213 892	+5 803	+66	+4
17	0.838 546	9 253	259	−3	0.479 789	13 526	146	−2	0.208 089	5 867	64	+3
18	0.847 799	8 992	261	+1	0.466 263	13 668	142	+1	0.202 222	5 928	61	−1
19	0.856 791	8 729	263	+4	0.452 595	13 805	137	0	0.196 294	5 988	60	0
20	0.865 520	8 464	265	+4	0.438 790	13 938	133	+3	0.190 306	6 045	57	−2
21	0.873 984	8 196	268	0	0.424 852	14 067	129	+3	0.184 261	6 102	57	+3
22	+0.882 180	+ 7 926	−270	−1	−0.410 785	+14 190	+123	−2	−0.178 159	+6 155	+53	−4
23	0.890 106	7 656	270	+4	0.396 595	14 310	120	+2	0.172 004	6 207	52	−3
24	0.897 762	7 382	274	−4	0.382 285	14 426	116	+4	0.165 797	6 257	50	−3
25	0.905 144	7 107	275	−4	0.367 859	14 537	111	−1	0.159 540	6 305	48	−3
26	0.912 251	6 830	277	−3	0.353 322	14 643	106	−2	0.153 235	6 351	46	0
27	0.919 081	6 552	278	−1	0.338 679	14 747	104	+4	0.146 884	6 396	45	+5
28	+0.925 633	+ 6 271	−281	−4	−0.323 932	+14 845	+ 98	−1	−0.140 488	+6 439	+43	+5
März 1	0.931 904	5 990	281	+3	0.309 087	14 939	94	−2	0.134 049	6 479	40	−1
2	0.937 894	5 706	284	0	0.294 148	15 028	89	−4	0.127 570	6 518	39	0
3	0.943 600	5 421	285	0	0.279 120	15 114	86	+3	0.121 052	6 555	37	0
4	0.949 021	5 134	287	−2	0.264 006	15 195	81	+4	0.114 497	6 589	34	−3
5	0.954 155	4 846	288	0	0.248 811	15 272	77	+3	0.107 908	6 623	34	+5
6	+0.959 001	+ 4 556	−290	−3	−0.233 539	+15 343	+ 71	0	−0.101 285	+6 654	+31	+4
7	0.963 557	4 265	291	−2	0.218 196	15 411	68	+5	0.094 631	6 684	30	+4
8	0.967 822	3 972	293	−4	0.202 785	15 474	63	+5	0.087 947	6 710	26	−4
9	0.971 794	3 678	294	−1	0.187 311	15 532	58	+4	0.081 237	6 735	25	−1
10	0.975 472	3 383	295	+2	0.171 779	15 586	54	+3	0.074 502	6 759	24	+5
11	0.978 855	3 087	296	+2	0.156 193	15 633	47	−4	0.067 743	6 780	21	+1
12	+0.981 942	+ 2 789	−298	−3	−0.140 560	+15 677	+ 44	+3	−0.060 963	+6 798	+18	−1
13	0.984 731	2 491	298	−1	0.124 883	15 716	39	+3	0.054 165	6 816	18	+5
14	0.987 222	2 192	299	−1	0.109 167	15 748	32	−3	0.047 349	6 830	14	0
15	0.989 414	1 892	300	−2	0.093 419	15 776	28	−1	0.040 519	6 842	12	−2
16	0.991 306	1 593	299	+2	0.077 643	15 799	23	+2	0.033 677	6 852	10	−1
17	0.992 899	1 294	299	+2	0.061 844	15 816	17	0	0.026 825	6 860	8	0
18	+0.994 193	+ 994	−300	−4	−0.046 028	+15 829	+ 13	+2	−0.019 965	+6 865	+ 5	−3
19	0.995 187	694	300	−5	0.030 199	15 836	7	0	0.013 100	6 869	4	+2
20	0.995 881	397	297	+4	−0.014 363	15 840	+ 4	+5	−0.006 231	6 870	+ 1	0
21	0.996 278	+ 98	299	−2	+0.001 477	15 837	− 3	−3	+0.000 639	6 869	− 1	+1
22	0.996 376	− 199	297	+2	0.017 314	+15 830	7	−3	0.007 508	+6 867	2	+4
23	+0.996 177		−297	+1	+0.033 144		− 10	+1	+0.014 375		− 6	−3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0 X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
März 23	+0.996 177	−496	−297	+1	+0.033 144	+15 820	−10	+1	+0.014 375	+6 861	−6	−3
24	0.995 681	792	296	+1	0.048 964	15 803	17	−5	0.021 236	6 855	6	+3
25	0.994 889	1 088	296	−1	0.064 767	15 784	19	+1	0.028 091	6 846	9	0
26	0.993 801	1 382	294	+2	0.080 551	15 759	25	−3	0.034 937	6 835	11	−3
27	0.992 419	1 677	295	−4	0.096 310	15 730	29	−3	0.041 772	6 822	13	−2
28	0.990 742	1 970	293	+2	0.112 040	15 697	33	−3	0.048 594	6 808	14	+1
29	+0.988 772	−2 262	−292	+4	+0.127 737	+15 659	−38	−5	+0.055 402	+6 791	−17	0
30	0.986 510	2 554	292	+2	0.143 396	15 617	42	−5	0.062 193	6 773	18	+3
31	0.983 956	2 844	290	+4	0.159 013	15 570	47	−4	0.068 966	6 753	20	+2
April 1	0.981 112	3 134	290	−3	0.174 583	15 520	50	+2	0.075 719	6 731	22	−1
2	0.977 978	3 424	290	−5	0.190 103	15 465	55	+2	0.082 450	6 706	25	−5
3	0.974 554	3 711	287	+3	0.205 568	15 405	60	+1	0.089 156	6 681	25	+2
4	+0.970 843	−3 998	−287	+3	+0.220 973	+15 342	−63	+4	+0.095 837	+6 653	−28	−2
5	0.966 845	4 283	285	+3	0.236 315	15 273	69	−1	0.102 490	6 623	30	−3
6	0.962 562	4 569	286	−3	0.251 588	15 200	73	0	0.109 113	6 592	31	0
7	0.957 993	4 851	282	+3	0.266 788	15 124	76	+4	0.115 705	6 558	34	−2
8	0.953 142	5 134	283	−3	0.281 912	15 041	83	−5	0.122 263	6 523	35	0
9	0.948 008	5 415	281	−1	0.296 953	14 954	87	−4	0.128 786	6 485	38	−2
10	+0.942 593	−5 693	−278	+2	+0.311 907	+14 863	−91	−1	+0.135 271	+6 446	−39	+1
11	0.936 900	5 971	278	−2	0.326 770	14 767	96	0	0.141 717	6 404	42	0
12	0.930 929	6 245	274	+2	0.341 537	14 666	101	−1	0.148 121	6 361	43	+3
13	0.924 684	6 519	274	−5	0.356 203	14 561	105	0	0.154 482	6 315	46	+2
14	0.918 165	6 789	270	−3	0.370 764	14 451	110	−3	0.160 797	6 268	47	+4
15	0.911 376	7 057	268	−4	0.385 215	14 336	115	−4	0.167 065	6 218	50	+1
16	+0.904 319	−7 322	−265	−4	+0.399 551	+14 218	−118	+1	+0.173 283	+6 167	−51	+4
17	0.896 997	7 585	263	−5	0.413 769	14 096	122	+1	0.179 450	6 114	53	+4
18	0.889 412	7 844	259	0	0.427 865	13 968	128	−5	0.185 564	6 059	55	+3
19	0.881 568	8 101	257	0	0.441 833	13 839	129	+3	0.191 623	6 003	56	+2
20	0.873 467	8 354	253	+4	0.455 672	13 705	134	0	0.197 626	5 944	59	−2
21	0.865 113	8 605	251	−1	0.469 377	13 566	139	−5	0.203 570	5 884	60	0
22	+0.856 508	−8 854	−249	−5	+0.482 943	+13 426	−140	+3	+0.209 454	+5 823	−61	+3
23	0.847 654	9 099	245	0	0.496 369	13 281	145	−1	0.215 277	5 761	62	+3
24	0.838 555	9 341	242	+2	0.509 650	13 132	149	−2	0.221 038	5 695	66	−5
25	0.829 214	9 580	239	0	0.522 782	12 982	150	+4	0.226 733	5 630	65	+2
26	0.819 634	9 818	238	−5	0.535 764	12 825	157	−5	0.232 363	5 563	67	+1
27	0.809 816	10 050	232	+4	0.548 589	12 668	157	+3	0.237 926	5 493	70	−5
28	+0.799 766	−10 282	−232	−4	+0.561 257	+12 506	−162	−1	+0.243 419	+5 423	−70	+1
29	0.789 484	10 509	227	0	0.573 763	12 340	166	−4	0.248 842	5 352	71	+4
30	0.778 975	10 734	225	−2	0.586 103	12 173	167	+4	0.254 194	5 279	73	+1
Mai 1	0.768 241	10 957	223	−5	0.598 276	12 001	172	0	0.259 473	5 204	75	−3
2	0.757 284	−11 174	217	+4	0.610 277	+11 826	175	−2	0.264 677	+5 128	76	−3
3	+0.746 110		−217	−5	+0.622 103		−178	−2	+0.269 805		−77	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X	Diff.	Diff.	ΔX*)	Y	Diff.	Diff.	ΔY*)	Z	Diff.	Diff.	ΔZ*)
1945												
Mai 3	+0.746 110	−11 391	−217	−5	+0.622 103	+11 648	−178	−2	+0.269 805	+5 051	− 77	−1
4	0.734 719	11 604	213	−1	0.633 751	11 466	182	−3	0.274 856	4 972	79	−1
5	0.723 115	11 813	209	+3	0.645 217	11 281	185	0	0.279 828	4 892	80	+2
6	0.711 302	12 019	206	+2	0.656 498	11 094	187	+4	0.284 720	4 811	81	+4
7	0.699 283	12 223	204	−4	0.667 592	10 901	193	−4	0.289 531	4 728	83	+1
8	0.687 060	12 422	199	+2	0.678 493	10 706	195	0	0.294 259	4 643	85	−2
9	+0.674 638	−12 617	−195	+2	+0.689 199	+10 508	−198	+4	+0.298 902	+4 557	− 86	0
10	0.662 021	12 810	193	−5	0.699 707	10 307	201	+3	0.303 459	4 470	87	+3
11	0.649 211	12 998	188	−1	0.710 014	10 101	206	−5	0.307 929	4 382	88	+4
12	0.636 213	13 181	183	+4	0.720 115	9 893	208	−2	0.312 311	4 291	91	−3
13	0.623 032	13 360	179	+4	0.730 008	9 683	210	+1	0.316 602	4 200	91	−1
14	0.609 672	13 535	175	−1	0.739 691	9 468	215	−4	0.320 802	4 107	93	−2
15	+0.596 137	−13 706	−171	−4	+0.749 159	+ 9 253	−215	+4	+0.324 909	+4 014	− 93	+2
16	0.582 431	13 872	166	−3	0.758 412	9 034	219	+1	0.328 923	3 919	95	−3
17	0.568 559	14 034	162	−2	0.767 446	8 814	220	+3	0.332 842	3 823	96	−4
18	0.554 525	14 191	157	+2	0.776 260	8 591	223	−1	0.336 665	3 726	97	−3
19	0.540 334	14 344	153	+2	0.784 851	8 366	225	−4	0.340 391	3 629	97	−1
20	0.525 990	14 492	148	+2	0.793 217	8 139	227	−4	0.344 020	3 530	99	−4
21	+0.511 498	−14 638	−146	−4	+0.801 356	+ 7 910	−229	−5	+0.347 550	+3 431	− 99	−3
22	0.496 860	14 777	139	+4	0.809 266	7 679	231	−2	0.350 981	3 330	101	−4
23	0.482 083	14 913	136	0	0.816 945	7 448	231	+4	0.354 311	3 230	100	+2
24	0.467 170	15 046	133	−4	0.824 393	7 213	235	−3	0.357 541	3 128	102	−1
25	0.452 124	15 172	126	+4	0.831 606	6 977	236	−2	0.360 669	3 026	102	−1
26	0.436 952	15 296	124	−3	0.838 583	6 740	237	−1	0.363 695	2 922	104	−4
27	+0.421 656	−15 416	−120	−5	+0.845 323	+ 6 500	−240	−4	+0.366 617	+2 819	−103	0
28	0.406 240	15 531	115	+1	0.851 823	6 260	240	+3	0.369 436	2 714	105	−3
29	0.390 709	15 641	110	+4	0.858 083	6 018	242	+3	0.372 150	2 609	105	−1
30	0.375 068	15 749	108	−1	0.864 101	5 773	245	−3	0.374 759	2 503	106	−1
31	0.359 319	15 850	101	+4	0.869 874	5 528	245	+1	0.377 262	2 397	106	+1
Juni 1	0.343 469	15 950	100	−5	0.875 402	5 281	247	+1	0.379 659	2 290	107	−1
2	+0.327 519	−16 044	− 94	−1	+0.880 683	+ 5 032	−249	−1	+0.381 949	+2 182	−108	−5
3	0.311 475	16 133	89	+1	0.885 715	4 781	251	0	0.384 131	2 073	109	−5
4	0.295 342	16 220	87	−5	0.890 496	4 530	251	+4	0.386 204	1 964	109	−1
5	0.279 122	16 299	79	+4	0.895 026	4 275	255	−3	0.388 168	1 855	109	+1
6	0.262 823	16 376	77	−5	0.899 301	4 021	254	+4	0.390 023	1 744	111	−4
7	0.246 447	16 448	72	−5	0.903 322	3 764	257	+1	0.391 767	1 632	112	−5
8	+0.229 999	−16 513	− 65	+3	+0.907 086	+ 3 506	−258	+1	+0.393 399	+1 522	−110	+4
9	0.213 486	16 575	62	−4	0.910 592	3 247	259	+2	0.394 921	1 408	114	−5
10	0.196 911	16 631	56	−2	0.913 839	2 987	260	+2	0.396 329	1 297	111	+4
11	0.180 280	16 682	51	−1	0.916 826	2 727	260	+4	0.397 626	1 183	114	−3
12	0.163 598	−16 728	46	0	0.919 553	+ 2 465	262	0	0.398 809	+1 070	113	−2
13	+0.146 870		− 40	+3	+0.922 018		−262	+2	+0.399 879		−114	−3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	*Y*			ΔY*)	*Z*			ΔZ*)
1945												
Juni 13	+0.146 870	−16 768	− 40	+3	+0.922 018	+2 203	−262	+2	+0.399 879	+ 956	−114	−3
14	0.130 102	16 804	36	0	0.924 221	1 942	261	+4	0.400 835	843	113	−1
15	0.113 298	16 835	31	0	0.926 163	1 679	263	−2	0.401 678	728	115	−5
16	0.096 463	16 860	25	+3	0.927 842	1 417	262	−1	0.402 406	615	113	+2
17	0.079 603	16 882	22	−1	0.929 259	1 154	263	−4	0.403 021	501	114	−1
18	0.062 721	16 897	15	+4	0.930 413	892	262	+1	0.403 522	387	114	−2
19	+0.045 824	−16 909	− 12	−3	+0.931 305	+ 630	−262	+2	+0.403 909	+ 273	−114	−3
20	0.028 915	16 916	7	−4	0.931 935	368	262	−2	0.404 182	159	114	−3
21	+0.011 999	16 919	− 3	−3	0.932 303	+ 105	263	−5	0.404 341	+ 45	114	−1
22	−0.004 920	16 915	+ 4	+5	0.932 408	− 156	261	0	0.404 386	− 68	113	+3
23	0.021 835	16 909	6	−3	0.932 252	418	262	−1	0.404 318	182	114	0
24	0.038 744	16 898	11	−1	0.931 834	679	261	+2	0.404 136	295	113	+3
25	−0.055 642	−16 881	+ 17	+4	+0.931 155	− 939	−260	+4	+0.403 841	− 408	−113	+2
26	0.072 523	16 862	19	−3	0.930 216	1 200	261	−3	0.403 433	521	113	−1
27	0.089 385	16 837	25	+4	0.929 016	1 461	261	−5	0.402 912	634	113	−3
28	0.106 222	16 808	29	+4	0.927 555	1 721	260	−1	0.402 278	747	113	−5
29	0.123 030	16 774	34	+3	0.925 834	1 980	259	+3	0.401 531	860	113	−4
30	0.139 804	16 737	37	−3	0.923 854	2 240	260	−1	0.400 671	971	111	+3
Juli 1	−0.156 541	−16 694	+ 43	0	+0.921 614	−2 499	−259	0	+0.399 700	−1 085	−114	−5
2	0.173 235	16 648	46	−4	0.919 115	2 758	259	−1	0.398 615	1 196	111	+4
3	0.189 883	16 595	53	+2	0.916 357	3 016	258	0	0.397 419	1 308	112	+2
4	0.206 478	16 539	56	−3	0.913 341	3 275	259	−3	0.396 111	1 419	111	+3
5	0.223 017	16 478	61	−3	0.910 066	3 531	256	+3	0.394 692	1 532	113	−5
6	0.239 495	16 411	67	+2	0.906 535	3 789	258	−4	0.393 160	1 642	110	+4
7	−0.255 906	−16 340	+ 71	+1	+0.902 746	−4 044	−255	+3	+0.391 518	−1 753	−111	0
8	0.272 246	16 263	77	+5	0.898 702	4 298	254	+3	0.389 765	1 864	111	−2
9	0.288 509	16 181	82	+3	0.894 404	4 553	255	−5	0.387 901	1 973	109	+2
10	0.304 690	16 096	85	−3	0.889 851	4 804	251	+3	0.385 928	2 083	110	−4
11	0.320 786	16 003	93	+5	0.885 047	5 054	250	+2	0.383 845	2 192	109	−2
12	0.336 789	15 908	95	−3	0.879 993	5 304	250	−4	0.381 653	2 299	107	+2
13	−0.352 697	−15 807	+101	−1	+0.874 689	−5 550	−246	+3	+0.379 354	−2 407	−108	−3
14	0.368 504	15 702	105	−1	0.869 139	5 795	245	−1	0.376 947	2 513	106	−1
15	0.384 206	15 592	110	+2	0.863 344	6 039	244	−5	0.374 434	2 619	106	−4
16	0.399 798	15 478	114	+4	0.857 305	6 280	241	−4	0.371 815	2 724	105	−4
17	0.415 276	15 359	119	+5	0.851 025	6 520	240	−4	0.369 091	2 828	104	0
18	0.430 635	15 237	122	+2	0.844 505	6 757	237	0	0.366 263	2 930	102	+3
19	−0.445 872	−15 110	+127	+4	+0.837 748	−6 992	−235	+2	+0.363 333	−3 033	−103	−4
20	0.460 982	14 979	131	+4	0.830 756	7 225	233	+2	0.360 300	3 134	101	−4
21	0.475 961	14 844	135	+4	0.823 531	7 456	231	+2	0.357 166	3 235	101	−4
22	0.490 805	14 705	139	+2	0.816 075	7 685	229	−1	0.353 931	3 333	98	+2
23	0.505 510	−14 563	142	−3	0.808 390	−7 912	227	−1	0.350 598	−3 433	100	−5
24	−0.520 073		+146	−1	+0.800 478		−224	+2	+0.347 165		− 96	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
		Mittleres Äquinoktium 1950.0											
1945													
Juli	24	−0.520 073	−14 417	+146	−1	+0.800 478	− 8 136	−224	+2	+0.347 165	−3 529	−96	+4
	25	0.534 490	14 266	151	+4	0.792 342	8 359	223	−1	0.343 636	3 626	97	0
	26	0.548 756	14 113	153	−1	0.783 983	8 579	220	+3	0.340 010	3 721	95	+2
	27	0.562 869	13 955	158	+2	0.775 404	8 797	218	+1	0.336 289	3 816	95	0
	28	0.576 824	13 794	161	+1	0.766 607	9 014	217	−3	0.332 473	3 909	93	+1
	29	0.590 618	13 628	166	+5	0.757 593	9 228	214	−1	0.328 564	4 003	94	−4
	30	−0.604 246	−13 459	+169	+1	+0.748 365	− 9 440	−212	−1	+0.324 561	−4 094	−91	+3
	31	0.617 705	13 286	173	−2	0.738 925	9 650	210	0	0.320 467	4 184	90	+3
Aug.	1	0.630 991	13 109	177	−2	0.729 275	9 857	207	0	0.316 283	4 275	91	−5
	2	0.644 100	12 928	181	−1	0.719 418	10 063	206	−3	0.312 008	4 364	89	−2
	3	0.657 028	12 742	186	+5	0.709 355	10 265	202	+2	0.307 644	4 451	87	+3
	4	0.669 770	12 552	190	+4	0.699 090	10 464	199	+3	0.303 193	4 538	87	+1
	5	−0.682 322	−12 359	+193	−1	+0.688 626	−10 661	−197	−1	+0.298 655	−4 623	−85	+4
	6	0.694 681	12 162	197	−1	0.677 965	10 855	194	−5	0.294 032	4 707	84	+3
	7	0.706 843	11 960	202	+5	0.667 110	11 046	191	−5	0.289 325	4 790	83	+2
	8	0.718 803	11 754	206	+5	0.656 064	11 233	187	−2	0.284 535	4 871	81	+3
	9	0.730 557	11 546	208	−2	0.644 831	11 417	184	0	0.279 664	4 951	80	+1
	10	0.742 103	11 334	212	−1	0.633 414	11 597	180	+2	0.274 713	5 029	78	+2
	11	−0.753 437	−11 117	+217	+3	+0.621 817	−11 774	−177	0	+0.269 684	−5 106	−77	−2
	12	0.764 554	10 899	218	−4	0.610 043	11 947	173	+1	0.264 578	5 182	76	−4
	13	0.775 453	10 677	222	−3	0.598 096	12 117	170	−4	0.259 396	5 255	73	0
	14	0.786 130	10 452	225	−1	0.585 979	12 284	167	−5	0.254 141	5 328	73	−4
	15	0.796 582	10 223	229	+2	0.573 695	12 446	162	+2	0.248 813	5 398	70	0
	16	0.806 805	9 993	230	−4	0.561 249	12 604	158	+4	0.243 415	5 467	69	0
	17	−0.816 798	− 9 759	+234	−2	+0.548 645	−12 760	−156	−4	+0.237 948	−5 535	−68	−3
	18	0.826 557	9 523	236	−1	0.535 885	12 912	152	−2	0.232 413	5 600	65	+1
	19	0.836 080	9 284	239	+1	0.522 973	13 059	147	+3	0.226 813	5 665	65	−2
	20	0.845 364	9 043	241	+1	0.509 914	13 204	145	−1	0.221 148	5 727	62	+3
	21	0.854 407	8 799	244	+3	0.496 710	13 344	140	+2	0.215 421	5 788	61	+3
	22	0.863 206	8 553	246	+1	0.483 366	13 481	137	+1	0.209 633	5 847	59	+2
	23	−0.871 759	− 8 306	+247	−3	+0.469 885	−13 615	−134	−2	+0.203 786	−5 905	−58	−2
	24	0.880 065	8 054	252	+5	0.456 270	13 745	130	−1	0.197 881	5 962	57	−3
	25	0.888 119	7 802	252	−3	0.442 525	13 872	127	−3	0.191 919	6 016	54	+1
	26	0.895 921	7 547	255	−2	0.428 653	13 995	123	−1	0.185 903	6 070	54	−2
	27	0.903 468	7 289	258	+1	0.414 658	14 115	120	0	0.179 833	6 121	51	+3
	28	0.910 757	7 029	260	−1	0.400 543	14 230	115	+3	0.173 712	6 171	50	0
	29	−0.917 786	− 6 767	+262	−1	+0.386 313	−14 343	−113	−4	+0.167 541	−6 220	−49	−4
	30	0.924 553	6 501	266	+4	0.371 970	14 452	109	−3	0.161 321	6 267	47	−3
	31	0.931 054	6 234	267	+1	0.357 518	14 556	104	+3	0.155 054	6 312	45	−2
Sept.	1	0.937 288	5 963	271	+3	0.342 962	14 656	100	+4	0.148 742	6 356	44	−3
	2	0.943 251	− 5 692	271	−3	0.328 306	−14 752	96	+1	0.142 386	−6 397	41	−1
	3	−0.948 943		+275	+2	+0.313 554		− 92	−1	+0.135 989		−41	−4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Sept. 3	−0.948 943	−5 417	+275	+2	+0.313 554	−14 844	−92	−1	+0.135 989	−6 438	−41	−4
4	0.954 360	5 140	277	+1	0.298 710	14 932	88	−3	0.129 551	6 475	37	+4
5	0.959 500	4 863	277	−4	0.283 778	15 014	82	+4	0.123 076	6 511	36	+2
6	0.964 363	4 582	281	+4	0.268 764	15 092	78	+3	0.116 565	6 545	34	0
7	0.968 945	4 300	282	+4	0.253 672	15 166	74	0	0.110 020	6 577	32	−2
8	0.973 245	4 017	283	+1	0.238 506	15 235	69	+2	0.103 443	6 608	31	−5
9	−0.977 262	−3 733	+284	0	+0.223 271	−15 299	−64	+2	+0.096 835	−6 635	−27	+2
10	0.980 995	3 446	287	+5	0.207 972	15 359	60	+2	0.090 200	6 661	26	−1
11	0.984 441	3 160	286	−3	0.192 613	15 413	54	+4	0.083 539	6 686	25	−4
12	0.987 601	2 872	288	−2	0.177 200	15 465	52	−3	0.076 853	6 707	21	+3
13	0.990 473	2 584	288	−3	0.161 735	15 510	45	+4	0.070 146	6 727	20	−1
14	0.993 057	2 295	289	−1	0.146 225	15 551	41	+4	0.063 419	6 745	18	−3
15	−0.995 352	−2 004	+291	+5	+0.130 674	−15 587	−36	+3	+0.056 674	−6 762	−17	−5
16	0.997 356	1 714	290	0	0.115 087	15 620	33	−5	0.049 912	6 774	12	+4
17	0.999 070	1 424	290	−2	0.099 467	15 648	28	−3	0.043 138	6 787	13	−5
18	1.000 494	1 132	292	+4	0.083 819	15 671	23	+1	0.036 351	6 797	10	−4
19	1.001 626	841	291	−1	0.068 148	15 689	18	+4	0.029 554	6 805	8	−4
20	1.002 467	550	291	−2	0.052 459	15 704	15	−1	0.022 749	6 811	6	−3
21	−1.003 017	−258	+292	+1	+0.036 755	−15 715	−11	−3	+0.015 938	−6 816	−5	−4
22	1.003 275	+34	292	0	0.021 040	15 721	6	+1	0.009 122	6 818	2	0
23	1.003 241	326	292	−1	+0.005 319	15 723	−2	+4	+0.002 304	6 819	−1	0
24	1.002 915	618	292	−1	−0.010 404	15 720	+3	+5	−0.004 515	6 818	+1	+2
25	1.002 297	912	294	+4	0.026 124	15 714	6	−2	0.011 333	6 814	4	+5
26	1.001 385	1 205	293	−2	0.041 838	15 704	10	−4	0.018 147	6 810	4	−2
27	−1.000 180	+1 498	+293	−4	−0.057 542	−15 688	+16	0	−0.024 957	−6 803	+7	−1
28	0.998 682	1 792	294	−1	0.073 230	15 668	20	0	0.031 760	6 795	8	−4
29	0.996 890	2 086	294	0	0.088 898	15 644	24	−3	0.038 555	6 784	11	0
30	0.994 804	2 380	294	0	0.104 542	15 614	30	+2	0.045 339	6 771	13	+1
Okt. 1	0.992 424	2 673	293	−2	0.120 156	15 580	34	+1	0.052 110	6 756	15	0
2	0.989 751	2 968	295	+5	0.135 736	15 540	40	+4	0.058 866	6 740	16	−4
3	−0.986 783	+3 260	+292	−3	−0.151 276	−15 497	+43	−1	−0.065 606	−6 720	+20	+2
4	0.983 523	3 552	292	−3	0.166 773	15 447	50	+5	0.072 326	6 700	20	−3
5	0.979 971	3 844	292	+2	0.182 220	15 394	53	+1	0.079 026	6 676	24	+4
6	0.976 127	4 135	291	+3	0.197 614	15 334	60	+5	0.085 702	6 650	26	+2
7	0.971 992	4 424	289	+1	0.212 948	15 271	63	0	0.092 352	6 624	26	−4
8	0.967 568	4 713	289	+3	0.228 219	15 202	69	+1	0.098 976	6 593	31	+3
9	−0.962 855	+4 999	+286	−1	−0.243 421	−15 129	+73	−2	−0.105 569	−6 562	+31	−3
10	0.957 856	5 286	287	+4	0.258 550	15 051	78	−2	0.112 131	6 528	34	−1
11	0.952 570	5 569	283	−4	0.273 601	14 969	82	−4	0.118 659	6 493	35	−4
12	0.947 001	5 851	282	−3	0.288 570	14 881	88	+3	0.125 152	6 454	39	+2
13	0.941 150	+6 132	281	0	0.303 451	−14 789	92	+4	0.131 606	−6 415	39	−3
14	−0.935 018		+278	−3	−0.318 240		+96	+2	−0.138 021		+42	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Okt. 14	−0.935 018	+ 6 410	+278	−3	−0.318 240	−14 693	+ 96	+2	−0.138 021	−6 373	+ 42	0
15	0.928 608	6 687	277	0	0.332 933	14 592	101	+2	0.144 394	6 329	44	+1
16	0.921 921	6 961	274	−2	0.347 525	14 487	105	+1	0.150 723	6 284	45	0
17	0.914 960	7 233	272	0	0.362 012	14 378	109	0	0.157 007	6 236	48	+5
18	0.907 727	7 504	271	+5	0.376 390	14 265	113	0	0.163 243	6 186	50	+5
19	0.900 223	7 771	267	0	0.390 655	14 148	117	+1	0.169 429	6 136	50	−3
20	−0.892 452	+ 8 037	+266	+3	−0.404 803	−14 026	+122	+2	−0.175 565	−6 083	+ 53	−1
21	0.884 415	8 301	264	+5	0.418 829	13 902	124	−3	0.181 648	6 029	54	−3
22	0.876 114	8 563	262	+4	0.432 731	13 773	129	0	0.187 677	5 973	56	0
23	0.867 551	8 822	259	−1	0.446 504	13 640	133	+1	0.193 650	5 915	58	+2
24	0.858 729	9 080	258	+2	0.460 144	13 503	137	+1	0.199 565	5 855	60	+2
25	0.849 649	9 336	256	+1	0.473 647	13 362	141	0	0.205 420	5 795	60	−4
26	−0.840 313	+ 9 589	+253	−4	−0.487 009	−13 217	+145	−3	−0.211 215	−5 731	+ 64	+1
27	0.830 724	9 840	251	−3	0.500 226	13 068	149	−3	0.216 946	5 667	64	−3
28	0.820 884	10 089	249	−2	0.513 294	12 914	154	+1	0.222 613	5 600	67	−1
29	0.810 795	10 335	246	−3	0.526 208	12 756	158	+1	0.228 213	5 532	68	−2
30	0.800 460	10 578	243	−4	0.538 964	12 594	162	+2	0.233 745	5 462	70	0
31	0.789 882	10 819	241	−1	0.551 558	12 427	167	+5	0.239 207	5 389	73	+5
Nov. 1	−0.779 063	+11 056	+237	−3	−0.563 985	−12 256	+171	+4	−0.244 596	−5 316	+ 73	+1
2	0.768 007	11 290	234	−2	0.576 241	12 082	174	0	0.249 912	5 239	77	+5
3	0.756 717	11 521	231	0	0.588 323	11 902	180	+3	0.255 151	5 163	76	−4
4	0.745 196	11 749	228	+2	0.600 225	11 720	182	−3	0.260 314	5 083	80	+2
5	0.733 447	11 972	223	−2	0.611 945	11 533	187	−2	0.265 397	5 003	80	−2
6	0.721 475	12 192	220	+2	0.623 478	11 343	190	−3	0.270 400	4 919	84	+5
7	−0.709 283	+12 409	+217	+5	−0.634 821	−11 148	+195	+3	−0.275 319	−4 836	+ 83	−2
8	0.696 874	12 621	212	+3	0.645 969	10 950	198	+2	0.280 155	4 750	86	+2
9	0.684 253	12 830	209	+4	0.656 919	10 749	201	0	0.284 905	4 662	88	+5
10	0.671 423	13 034	204	−1	0.667 668	10 544	205	+4	0.289 567	4 573	89	+1
11	0.658 389	13 234	200	−1	0.678 212	10 335	209	+5	0.294 140	4 483	90	−3
12	0.645 155	13 430	196	−1	0.688 547	10 124	211	−1	0.298 623	4 392	91	−4
13	−0.631 725	+13 621	+191	−1	−0.698 671	− 9 910	+214	−4	−0.303 015	−4 298	+ 94	+2
14	0.618 104	13 810	189	+5	0.708 581	9 693	217	−4	0.307 313	4 204	94	0
15	0.604 294	13 992	182	−4	0.718 274	9 473	220	−3	0.311 517	4 108	96	0
16	0.590 302	14 171	179	−3	0.727 747	9 250	223	−1	0.315 625	4 012	96	−4
17	0.576 131	14 345	174	−3	0.736 997	9 025	225	−4	0.319 637	3 914	98	0
18	0.561 786	14 517	172	+4	0.746 022	8 798	227	−4	0.323 551	3 815	99	+3
19	−0.547 269	+14 683	+166	−3	−0.754 820	− 8 567	+231	+2	−0.327 366	−3 715	+100	+3
20	0.532 586	14 845	162	−4	0.763 387	8 334	233	+2	0.331 081	3 614	101	+4
21	0.517 741	15 004	159	+1	0.771 721	8 099	235	−3	0.334 695	3 511	103	+5
22	0.502 737	15 158	154	+1	0.779 820	7 862	237	−4	0.338 206	3 409	102	−3
23	0.487 579	+15 309	151	+5	0.787 682	− 7 620	242	+3	0.341 615	−3 304	105	0
24	−0.472 270		+146	+3	−0.795 302		+242	−2	−0.344 919		+105	−4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1945												
Nov. 24	−0.472 270	+15 455	+146	+3	−0.795 302	−7 378	+242	−2	−0.344 919	−3 199	+105	−4
25	0.456 815	15 597	142	+3	0.802 680	7 131	247	+5	0.348 118	3 093	106	−2
26	0.441 218	15 734	137	+1	0.809 811	6 883	248	0	0.351 211	2 984	109	+3
27	0.425 484	15 867	133	+1	0.816 694	6 632	251	+1	0.354 195	2 876	108	−4
28	0.409 617	15 994	127	−4	0.823 326	6 378	254	+5	0.357 071	2 766	110	−3
29	0.393 623	16 117	123	−2	0.829 704	6 121	257	+5	0.359 837	2 656	110	−3
30	−0.377 506	+16 235	+118	0	−0.835 825	−5 864	+257	−4	−0.362 493	−2 543	+113	+5
Dez. 1	0.361 271	16 348	113	+1	0.841 689	5 603	261	−1	0.365 036	2 430	113	+2
2	0.344 923	16 455	107	−1	0.847 292	5 341	262	−1	0.367 466	2 317	113	−2
3	0.328 468	16 558	103	+5	0.852 633	5 076	265	+2	0.369 783	2 202	115	+2
4	0.311 910	16 655	97	+4	0.857 709	4 810	266	+2	0.371 985	2 087	115	+2
5	0.295 255	16 747	92	+3	0.862 519	4 541	269	+4	0.374 072	1 970	117	+5
6	−0.278 508	+16 833	+86	0	−0.867 060	−4 272	+269	−1	−0.376 042	−1 853	+117	+2
7	0.261 675	16 914	81	0	0.871 332	4 001	271	−2	0.377 895	1 736	117	−2
8	0.244 761	16 988	74	−3	0.875 333	3 729	272	−1	0.379 631	1 618	118	−1
9	0.227 773	17 059	71	+4	0.879 062	3 455	274	+4	0.381 249	1 499	119	+3
10	0.210 714	17 122	63	−1	0.882 517	3 181	274	+1	0.382 748	1 380	119	+3
11	0.193 592	17 182	60	+5	0.885 698	2 905	276	+5	0.384 128	1 260	120	+4
12	−0.176 410	+17 234	+52	−3	−0.888 603	−2 630	+275	+1	−0.385 388	−1 140	+120	+1
13	0.159 176	17 282	48	−2	0.891 233	2 353	277	+5	0.386 528	1 021	119	−4
14	0.141 894	17 324	42	−4	0.893 586	2 076	277	+2	0.387 549	900	121	+1
15	0.124 570	17 361	37	−3	0.895 662	1 799	277	−1	0.388 449	780	120	0
16	0.107 209	17 393	32	−1	0.897 461	1 522	277	−2	0.389 229	659	121	+1
17	0.089 816	17 420	27	0	0.898 983	1 244	278	+3	0.389 888	539	120	−1
18	−0.072 396	+17 442	+22	−1	−0.900 227	−965	+279	+5	−0.390 427	−418	+121	+2
19	0.054 954	17 458	16	−2	0.901 192	687	278	−1	0.390 845	297	121	+1
20	0.037 496	17 471	13	+5	0.901 879	409	278	−4	0.391 142	177	120	−3
21	0.020 025	17 478	7	+1	0.902 288	−130	279	−1	0.391 319	−56	121	+2
22	−0.002 547	17 479	+1	−3	0.902 418	+150	280	+2	0.391 375	+66	122	+5
23	+0.014 932	17 476	−3	+2	0.902 268	429	279	−1	0.391 309	187	121	+1
24	+0.032 408	+17 468	−8	+3	−0.901 839	+710	+281	+5	−0.391 122	+308	+121	−3
25	0.049 876	17 454	14	0	0.901 129	989	279	−2	0.390 814	429	121	−4
26	0.067 330	17 434	20	−5	0.900 140	1 270	281	+2	0.390 385	550	121	−2
27	0.084 764	17 409	25	−4	0.898 870	1 549	279	−3	0.389 835	672	122	+3
28	0.102 173	17 379	30	−2	0.897 321	1 829	280	0	0.389 163	793	121	+2
29	0.119 552	17 342	37	−4	0.895 492	2 109	280	+2	0.388 370	914	121	+2
30	+0.136 894	+17 302	−40	+4	−0.893 383	+2 388	+279	+1	−0.387 456	+1 035	+121	+4
31	0.154 196	+17 254	48	−4	0.890 995	+2 666	278	−2	0.386 421	+1 156	121	+4
32	+0.171 450		−53	−4	−0.888 329		+278	+1	−0.385 265		+120	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Mittleres Äquinoktium 1950.0

MERKUR 1945

0h Welt-Zeit	log r	Helioz. Länge	Red. auf d. Bahn	Helioz. Breite	0h Welt-Zeit	log r	Helioz. Länge	Red. auf d. Bahn	Helioz. Breite
1945		°	°	°	1945		°	°	°
Jan. 0	9.5276	137.54	0.00	+7.00	Juli 4	9.5889	179.43	—0.21	+5.24
5	9.5618	162.16	—0.16	+6.38	9	9.6179	198.02	—0.18	+3.49
10	9.5948	183.13	—0.21	+4.93	14	9.6407	214.44	—0.10	+1.62
15	9.6227	201.24	—0.17	+3.14	19	9.6568	229.42	+0.01	—0.21
20	9.6442	217.34	—0.08	+1.27	24	9.6661	243.55	+0.11	—1.92
25	9.6591	232.12	+0.03	—0.54	29	9.6690	257.31	+0.18	—3.47
30	9.6672	246.15	+0.13	—2.22	Aug. 3	9.6654	271.14	+0.21	—4.82
Febr. 4	9.6689	259.89	+0.19	—3.74	8	9.6551	285.47	+0.19	—5.93
9	9.6640	273.78	+0.21	—5.05	13	9.6383	300.78	+0.12	—6.70
14	9.6525	288.26	+0.18	—6.10	18	9.6148	317.62	0.00	—7.00
19	9.6344	303.81	+0.10	—6.80	23	9.5850	336.67	—0.13	—6.63
24	9.6096	321.01	—0.02	—6.99	28	9.5512	358.67	—0.21	—5.30
März 1	9.5790	340.55	—0.15	—6.46	Sept. 2	9.5179	24.28	—0.16	—2.80
6	9.5447	3.20	—0.21	—4.93	7	9.4939	53.46	+0.04	+0.70
11	9.5124	29.51	—0.13	—2.20	12	9.4887	84.81	+0.21	+4.23
16	9.4912	59.26	+0.08	+1.40	17	9.5047	115.56	+0.15	+6.49
21	9.4901	90.72	+0.21	+4.79	22	9.5349	143.26	—0.04	+6.97
26	9.5096	121.05	+0.12	+6.71	27	9.5694	167.03	—0.18	+6.12
31	9.5413	148.02	—0.08	+6.89	Okt. 2	9.6014	187.30	—0.21	+4.56
April 5	9.5756	171.08	—0.20	+5.86	7	9.6280	204.90	—0.15	+2.73
10	9.6068	190.78	—0.21	+4.23	12	9.6480	220.66	—0.05	+0.87
15	9.6323	207.98	—0.14	+2.38	17	9.6613	235.24	+0.06	—0.92
20	9.6510	223.47	—0.03	+0.53	22	9.6681	249.16	+0.15	—2.57
25	9.6631	237.89	+0.07	—1.24	27	9.6683	262.90	+0.20	—4.05
30	9.6687	251.74	+0.16	—2.86	Nov. 1	9.6620	276.88	+0.21	—5.31
Mai 5	9.6676	265.50	+0.21	—4.30	6	9.6491	291.55	+0.17	—6.29
10	9.6601	279.57	+0.21	—5.52	11	9.6295	307.40	+0.08	—6.89
15	9.6459	294.42	+0.16	—6.44	16	9.6034	325.05	—0.05	—6.95
20	9.6251	310.55	+0.05	—6.95	21	9.5716	345.21	—0.18	—6.22
25	9.5978	328.61	—0.08	—6.88	26	9.5372	8.62	—0.21	—4.43
30	9.5653	349.33	—0.19	—5.97	Dez. 1	9.5064	35.75	—0.09	—1.46
Juni 4	9.5308	13.42	—0.20	—3.96	6	9.4891	66.08	+0.13	+2.21
9	9.5019	41.23	—0.05	—0.80	11	9.4929	97.54	+0.21	+5.36
14	9.4881	71.97	+0.16	+2.89	16	9.5159	127.28	+0.08	+6.89
19	9.4960	103.33	+0.20	+5.79	21	9.5489	153.39	—0.11	+6.75
24	9.5217	132.47	+0.04	+6.97	26	9.5829	175.65	—0.21	+5.54
29	9.5553	157.84	—0.14	+6.58	31	9.6129	194.73	—0.20	+3.83
Juli 4	9.5889	179.43	—0.21	+5.24					

$\Omega = 47^\circ.739$ $i = 7^\circ.004$ $m = \frac{1}{6\,000\,000}$

Mittleres Äquinoktium 1950.0

0ʰ Welt-Zeit		Julian. Zeit	log r	Heliozentr. Länge	Red. auf d. Bahn	Heliozentr. Breite	log R	Länge
			VENUS 1945				ERDE 1945	
1945		d		°	° in 0.001	°		°
Jan.	−5	2431 450.5	9.86005	26.568	−50	−2.589	9.99274	94.185
	+5	460.5	9.85923	42.563	−46	−1.884	9.99268	104.377
	15	470.5	9.85842	58.605	−29	−1.030	9.99285	114.567
	25	480.5	9.85768	74.695	− 3	−0.092	9.99323	124.744
Febr.	4	490.5	9.85707	90.835	+25	+0.856	9.99382	134.897
	14	2431 500.5	9.85663	107.022	+44	+1.738	9.99460	145.019
	24	510.5	9.85641	123.247	+50	+2.484	9.99554	155.101
März	6	520.5	9.85641	139.497	+40	+3.032	9.99661	165.136
	16	530.5	9.85665	155.750	+18	+3.337	9.99778	175.120
	26	540.5	9.85710	171.983	−10	+3.377	9.99900	185.048
April	5	2431 550.5	9.85772	188.172	−35	+3.149	0.00025	194.920
	15	560.5	9.85848	204.299	−49	+2.674	0.00148	204.735
	25	570.5	9.85929	220.353	−48	+1.991	0.00267	214.496
Mai	5	580.5	9.86011	236.331	−32	+1.157	0.00377	224.205
	15	590.5	9.86086	252.242	− 7	+0.237	0.00476	233.868
	25	2431 600.5	9.86150	268.099	+20	−0.698	0.00560	243.490
Juni	4	610.5	9.86197	283.922	+41	−1.578	0.00628	253.078
	14	620.5	9.86223	299.730	+50	−2.337	0.00679	262.640
	24	630.5	9.86228	315.542	+44	−2.919	0.00709	272.184
Juli	4	640.5	9.86210	331.372	+25	−3.281	0.00720	281.719
	14	2431 650.5	9.86171	347.230	− 2	−3.394	0.00710	291.254
	24	660.5	9.86113	3.123	−28	−3.248	0.00680	300.797
Aug.	3	670.5	9.86042	19.056	−46	−2.853	0.00631	310.358
	13	680.5	9.85962	35.031	−50	−2.238	0.00564	319.945
	23	690.5	9.85879	51.050	−39	−1.446	0.00480	329.565
Sept.	2	2431 700.5	9.85800	67.118	−16	−0.539	0.00382	339.226
	12	710.5	9.85732	83.236	+12	+0.414	0.00272	348.933
	22	720.5	9.85679	99.403	+36	+1.336	0.00155	358.691
Okt.	2	730.5	9.85646	115.614	+49	+2.155	0.00032	8.503
	12	740.5	9.85636	131.856	+47	+2.802	9.99907	18.372
	22	2431 750.5	9.85649	148.111	+29	+3.226	9.99784	28.297
Nov.	1	760.5	9.85685	164.358	+ 3	+3.392	9.99667	38.277
	11	770.5	9.85740	180.571	−24	+3.289	9.99560	48.309
	21	780.5	9.85810	196.730	−44	+2.926	9.99466	58.388
Dez.	1	790.5	9.85890	212.819	−50	+2.334	9.99387	68.508
	11	2431 800.5	9.85973	228.833	−41	+1.564	9.99327	78.659
	21	810.5	9.86052	244.774	−20	+0.675	9.99287	88.834
	31	2431 820.5	9.86122	260.654	+ 8	−0.262	9.99269	99.023

Venus: $\Omega = 76^\circ\!.230$ $i = 3^\circ\!.394$ $m = \frac{1}{408\,000}$

Erde: $m = \frac{1}{329\,390}$

Mittleres Äquinoktium 1950.0

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
	MARS 1945				JUPITER 1945			
1945		°	° in 0.001	°		°	° in 0.0001	°
Jan. −5	0.17281	254.104	+11	−0.780	0.734477	166.7408	+54	+1.2011
+5	0.16906	259.615	13	0.938	0.734610	167.5037	52	1.2078
15	0.16537	265.222	14	1.089	0.734740	168.2661	51	1.2143
25	0.16179	270.925	15	1.232	0.734866	169.0281	50	1.2207
Febr. 4	0.15834	276.721	15	1.365	0.734990	169.7896	48	1.2268
14	0.15508	282.608	+14	−1.486	0.735109	170.5508	+47	+1.2326
24	0.15204	288.582	13	1.593	0.735224	171.3115	45	1.2382
März 6	0.14928	294.636	11	1.683	0.735335	172.0718	43	1.2437
16	0.14682	300.765	9	1.756	0.735443	172.8318	42	1.2489
26	0.14471	306.959	6	1.808	0.735548	173.5914	40	1.2539
April 5	0.14299	313.208	+ 3	−1.840	0.735649	174.3506	+38	+1.2587
15	0.14167	319.501	0	1.850	0.735745	175.1095	37	1.2633
25	0.14078	325.827	− 3	1.838	0.735838	175.8680	35	1.2676
Mai 5	0.14034	332.171	7	1.803	0.735928	176.6262	33	1.2717
15	0.14035	338.522	9	1.746	0.736013	177.3842	32	1.2755
25	0.14082	344.865	−12	−1.668	0.736096	178.1418	+30	+1.2792
Juni 4	0.14173	351.188	13	1.569	0.736173	178.8992	28	1.2826
14	0.14307	357.477	15	1.452	0.736247	179.6563	26	1.2858
24	0.14482	3.721	15	1.319	0.736318	180.4131	24	1.2888
Juli 4	0.14695	9.908	15	1.172	0.736385	181.1697	22	1.2915
14	0.14943	16.030	−14	−1.012	0.736447	181.9261	+21	+1.2941
24	0.15221	22.077	12	0.843	0.736506	182.6822	19	1.2964
Aug. 3	0.15526	28.043	10	0.667	0.736562	183.4382	17	1.2984
13	0.15853	33.922	8	0.487	0.736614	184.1940	15	1.3003
23	0.16199	39.711	5	0.305	0.736661	184.9496	13	1.3019
Sept. 2	0.16558	45.405	− 2	−0.122	0.736705	185.7051	+11	+1.3033
12	0.16928	51.005	+ 1	+0.059	0.736745	186.4604	9	1.3045
22	0.17303	56.510	4	0.236	0.736781	187.2156	7	1.3054
Okt. 2	0.17681	61.920	6	0.408	0.736813	187.9706	5	1.3061
12	0.18057	67.237	9	0.574	0.736841	188.7256	3	1.3066
22	0.18429	72.463	+11	+0.732	0.736865	189.4804	+ 1	+1.3069
Nov. 1	0.18794	77.602	13	0.881	0.736886	190.2352	− 1	1.3069
11	0.19148	82.657	14	1.021	0.736903	190.9900	3	1.3067
21	0.19490	87.632	15	1.151	0.736916	191.7446	5	1.3063
Dez. 1	0.19817	92.531	15	1.270	0.736924	192.4993	7	1.3056
11	0.20128	97.359	+15	+1.379	0.736929	193.2539	− 9	+1.3047
21	0.20421	102.121	14	1.477	0.736931	194.0085	11	1.3036
31	0.20695	106.821	+14	+1.563	0.736928	194.7631	−12	+1.3023

Mars: ☊ = 49°172 i = 1°850 $m = \frac{1}{3\,093\,500}$

Jupiter: ☊ = 99°9528 i = 1°3059 $m = \frac{1}{1\,047.35}$

Mittleres Äquinoktium 1950.0

SATURN 1945

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0°.0001	°
1944	Dez.	16	2431 440.5	0.955679	96.8897	—146	—0.7004
1945	Jan.	25	480.5	0.955725	98.3822	134	0.6380
	März	6	520.5	0.955787	99.8741	122	0.5751
	April	15	560.5	0.955863	101.3655	—109	—0.5119
	Mai	25	600.5	0.955957	102.8562	96	0.4484
	Juli	4	640.5	0.956060	104.3461	83	0.3846
	Aug.	13	680.5	0.956182	105.8351	— 69	—0.3205
	Sept.	22	720.5	0.956318	107.3232	55	0.2563
	Nov.	1	760.5	0.956469	108.8102	42	0.1920
1945	Dez.	11	800.5	0.956636	110.2960	28	0.1276
1946	Jan.	20	2431 840.5	0.956817	111.7805	— 14	—0.0631

☊ = 113°.2251 $i = 2°.4903$ $m = \frac{1}{3\,501.6}$

URANUS 1945

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0°.001	°
1944	Dez.	16	2431 440.5	1.28535	71.328	0	—0.033
1945	Jan.	25	480.5	1.28518	71.792	0	0.027
	März	6	520.5	1.28500	72.256	0	0.021
	April	15	560.5	1.28483	72.721	0	—0.015
	Mai	25	600.5	1.28466	73.186	0	0.008
	Juli	4	640.5	1.28449	73.652	0	—0.002
	Aug.	13	680.5	1.28432	74.118	0	+0.004
	Sept.	22	720.5	1.28414	74.584	0	0.011
	Nov.	1	760.5	1.28397	75.050	0	0.017
1945	Dez.	11	800.5	1.28380	75.517	0	0.023
1946	Jan.	20	2431 840.5	1.28362	75.984	0	+0.029

☊ = 73°.745 $i = 0°.773$ $m = \frac{1}{22\,869}$

NEPTUN 1945

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0°.001	°
1944	Dez.	16	2431 440.5	1.48103	184.545	+ 13	+1.423
1945	Jan.	25	480.5	1.48104	184.781	13	1.428
	März	6	520.5	1.48106	185.018	13	1.432
	April	15	560.5	1.48107	185.255	+ 13	+1.436
	Mai	25	600.5	1.48108	185.491	13	1.441
	Juli	4	640.5	1.48109	185.728	13	1.445
	Aug.	13	680.5	1.48110	185.964	+ 13	+1.449
	Sept.	22	720.5	1.48111	186.201	13	1.453
	Nov.	1	760.5	1.48112	186.438	13	1.457
1945	Dez.	11	800.5	1.48113	186.674	13	1.462
1946	Jan.	20	2431 840.5	1.48114	186.911	+ 13	+1.466

☊ = 131°.230 $i = 1°.775$ $m = \frac{1}{19\,314}$

PLUTO 1945

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0°.001	°
1944	Nov.	6	2431 400.5	1.57583	128.825	+823	+5.788
1945	Jan.	25	480.5	1.57518	129.153	834	5.883
	April	15	560.5	1.57453	129.483	846	5.977
	Juli	4	640.5	1.57387	129.813	+857	+6.072
	Sept.	22	720.5	1.57322	130.145	869	6.166
1945	Dez.	11	800.5	1.57256	130.477	880	6.261
1946	März	1	2431 880.5	1.57190	130.811	+892	+6.356

☊ = 109°.633 $i = 17°.144$ $m \approx \frac{1}{3\,300\,000}$

Mittlere und Scheinbare Sternörter 1945

Reduktionsgrößen

Mittlere Sternörter 1945.0

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
905	[2 Ceti]	4.62	A 0	0 0 55.386	+3.0731	+ 16	−17 38 31.50	+20.041	− 2
1001	[45 G. Tucanae]	5.64	B 9	0 1 55.132	+3.0481	+ 92	−71 44 34.96	+20.026	− 16
1002	[33 Piscium]	4.68	K 0	0 2 31.172	+3.0708	− 8	− 6 0 54.41	+20.139	+ 97
1003	[9 G. Ceti]	6.06	F 0	0 4 1.316	+3.0703	+ 73	−23 24 47.03	+20.000	− 40
1	α Andromedae	2.15	A 0 p	0 5 32.337	+3.1013	+ 103	+28 47 12.72	+19.878	− 159
2	β Cassiopeiae	2.42	F 5	0 6 13.712	+3.2010	+ 675	+58 50 47.44	+19.858	− 178
3	ε Phoenicis	3.94	K 0	0 6 37.557	+3.0456	+ 126	−46 3 2.62	+19.864	− 170
4	[22 Andromedae]	5.08	F 0	0 7 27.141	+3.1183	+ 3	+45 45 58.67	+20.035	+ 3
5	[κ² Sculptoris]	5.56	K 0	0 8 46.996	+3.0466	+ 8	−28 6 21.40	+20.053	+ 25
6	[ϑ Sculptoris]	5.19	F 5	0 8 56.403	+3.0489	+ 129	−35 26 26.69	+20.163	+ 136
7	γ Pegasi	2.87	B 2	0 10 23.999	+3.0894	+ 1	+14 52 40.49	+20.016	− 6
1004	[χ Pegasi]	4.94	M 0	0 11 45.137	+3.1045	+ 65	+19 54 3.45	+20.022	+ 5
1005	[σ Andromedae]	4.51	A 2	0 15 26.794	+3.1342	− 56	+36 28 49.94	+19.962	− 35
1006	[Pi 0ʰ 38 Andr]	5.80	A 0	0 15 45.542	+3.1336	+ 47	+31 12 43.36	+20.000	+ 4
9	ι Ceti	3.75	K 0	0 16 37.502	+3.0564	− 12	− 9 7 43.03	+19.963	− 27
10	ζ Tucanae	4.34	F 8	0 17 13.130	+3.1272	+2712	−65 11 52.18	+21.159	+1173
1007	[−18° 41 Cetus]	6.88	K 0	0 17 15.673	+3.0454	+ 50	−18 0 19.75	+19.995	+ 9
1008	[41 Piscium]	5.58	K 0	0 17 45.877	+3.0872	− 4	+ 7 53 5.87	+19.998	+ 15
1009	[ρ Andromedae]	5.20	F 5	0 18 12.985	+3.1601	+ 49	+37 39 50.98	+19.946	− 34
1010	[44 Piscium]	5.99	G 5	0 22 34.898	+3.0760	− 9	+ 1 38 7.13	+19.936	− 10
11	β Hydri	2.90	G 0	0 22 53.652	+3.1588	+6906	−77 33 49.79	+20.271	+ 329
12	α Phoenicis	2.44	K 0	0 23 34.209	+2.9659	+ 190	−42 36 15.89	+19.553	− 384
1011	[Pi 0ʰ 78 Cetus]	7.54	M 3	0 25 13.068	+3.0451	+ 30	−11 57 46.34	+19.907	− 15
1012	[48 Piscium]	6.46	K 2	0 25 21.002	+3.1170	+ 11	+16 8 27.99	+19.910	− 11
13	12 Ceti	6.05	K 5	0 27 13.855	+3.0620	+ 6	− 4 15 39.36	+19.898	− 3
14	[49 G. Ceti]	5.23	A 3	0 27 37.745	+2.9994	− 19	−24 5 30.03	+19.919	+ 22
15	[λ¹ Phoenicis]	4.88	A 2	0 28 46.112	+2.8944	+ 145	−49 6 26.63	+19.915	+ 30
16	[κ Cassiopeiae]	4.24	B 0	0 29 51.262	+3.4084	− 5	+62 37 42.86	+19.876	+ 3
1013	[77 G. Sculptoris]	5.62	K 0	0 30 57.927	+2.9677	− 21	−29 51 40.30	+19.828	− 32
1014	[58 G. Phoenicis]	5.55	F 5	0 31 51.094	+2.8543	+ 241	−52 40 36.31	+19.889	+ 40
17	ζ Cassiopeiae	3.72	B 3	0 33 53.599	+3.3422	+ 17	+53 35 40.32	+19.818	− 6
18	π Andromedae	4.47	B 3	0 33 56.163	+3.2045	+ 12	+33 25 0.67	+19.823	0
19	[ε Andromedae]	4.52	G 5	0 35 38.560	+3.1704	− 176	+29 0 48.51	+19.554	− 247
20	δ Andromedae	3.49	K 2	0 36 22.808	+3.2084	+ 104	+30 33 37.03	+19.703	− 88
21	α Cassiopeiae	2.1–2.6	K 0	0 37 22.271	+3.4039	+ 60	+56 14 9.90	+19.749	− 28
1015	[μ Phoenicis]	4.65	K 0	0 38 43.800	+2.8346	− 26	−46 23 11.57	+19.769	+ 11
1016	[Lac 181 Scul]	7.21	M 0	0 39 57.898	+2.9009	− 18	−36 19 25.48	+19.749	+ 10
22	β Ceti	2.24	K 0	0 40 49.761	+3.0114	+ 165	−18 17 17.42	+19.765	+ 40
23	[η Phoenicis]	4.53	A 0	0 40 53.361	+2.6974	+ 4	−57 45 51.64	+19.746	+ 21
26	[λ² Sculptoris]	5.97	K 0	0 41 32.699	+2.9001	+ 201	−38 43 27.57	+19.841	+ 127

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
25	o Cassiopeiae	4.70	B 2	0 41 38.930	+3.3432	+ 17	+47 59 1.46	+19.709	— 3
24	21 Cassiopeiae	5.7-6.1	A 2	0 41 58.589	+3.9577	— 53	+74 41 16.28	+19.687	— 20
1017	[70 G. Phoenicis]	6.00	A 5	0 42 21.256	+2.8364	— 79	—42 58 33.21	+19.602	— 100
27	ζ Andromedae	4.30	K 0	0 44 25.061	+3.1802	— 75	+23 58 6.06	+19.591	— 76
1018	[79 G. Ceti]	5.45	B 9	0 45 17.798	+2.9687	+ 17	—22 1 20.41	+19.644	— 9
1019	[96 G. Piscium]	5.82	G 5	0 45 29.712	+3.1468	+ 505	+ 4 59 53.30	+18.508	—1141
28	[δ Piscium]	4.55	K 5	0 45 49.546	+3.1127	+ 55	+ 7 17 9.97	+19.598	— 45
1020	[64 Piscium]	5.23	F 5	0 46 5.025	+3.1528	— 2	+16 38 38.62	+19.441	— 197
31	[λ Hydri]	4.96	K 5	0 46 41.341	+2.0838	+ 355	—75 13 21.33	+19.604	— 24
1021	[ν Andromedae]	4.42	B 3	0 46 46.277	+3.3084	+ 15	+40 46 47.15	+19.610	— 17
29	[Br 82 Cass]	5.45	F 2 + A 2	0 47 22.066	+3.6386	+ 39	+63 56 54.85	+19.609	— 6
30	[φ² Ceti]	5.24	F 5	0 47 22.259	+3.0045	— 157	—10 56 24.44	+19.396	— 220
1022	[20 Ceti]	4.92	K 0	0 50 11.710	+3.0662	+ 3	— 1 26 33.24	+19.551	— 13
34	[λ² Tucanae]	5.34	K 0	0 52 57.439	+2.2423	+ 20	—69 49 27.15	+19.473	— 36
32	γ Cassiopeiae	1.6–2.3	B 0 p	0 53 22.194	+3.6197	+ 28	+60 25 9.87	+19.499	— 2
33	μ Andromedae	3.94	A 2	0 53 41.503	+3.3302	+ 127	+38 12 5.36	+19.532	+ 37
1023	[68 Piscium]	5.64	K 0	0 54 51.136	+3.2469	+ 2	+28 41 43.05	+19.464	— 7
35	α Sculptoris	4.39	B 5	0 55 57.417	+2.8904	+ 12	—29 39 15.51	+19.455	+ 7
1024	[98 G. Ceti]	6.70	K 0	0 55 58.526	+3.0385	+ 3	— 6 10 41.70	+19.374	— 73
1025	[101 G. Ceti]	6.58	G 5	0 58 54.880	+2.9776	+ 55	—16 33 35.48	+19.312	— 71
1027	[80 G. Phoenicis]	6.00	K 0	0 59 42.490	+2.5368	— 2	—57 17 53.20	+19.395	+ 29
1026	[σ Sculptoris]	5.52	A 2	0 59 48.897	+2.8646	+ 57	—31 50 51.71	+19.381	+ 17
36	ε Piscium	4.45	K 0	1 0 5.128	+3.1140	— 54	+ 7 35 40.16	+19.387	+ 30
37	[26 Ceti]	6.18	F 0	1 0 59.023	+3.0876	+ 78	+ 1 4 20.93	+19.301	— 36
1028	[72 Piscium]	5.65	F 2	1 2 10.891	+3.1673	+ 4	+14 39 2.76	+19.368	+ 59
1029	[106 G. Ceti]	6.29	G 5	1 3 27.935	+2.9064	— 19	—24 17 9.87	+19.236	— 42
1030	[μ Cassiopeiae]	5.26	G 5	1 4 35.685	+3.9914	+3939	+54 39 4.69	+17.678	—1573
39	[ι Tucanae]	5.32	K 0	1 5 8.236	+2.3772	+ 108	—62 4 7.02	+19.240	+ 2
1031	υ Phoenicis	5.15	A 3	1 5 17.262	+2.7411	+ 35	—41 46 50.62	+19.239	+ 4
40	[η Ceti]	3.60	K 0	1 5 49.335	+3.0179	+ 147	—10 28 23.79	+19.093	— 128
42	β Andromedae	2.37	M 0	1 6 38.664	+3.3595	+ 146	+35 19 46.19	+19.089	— 112
41	[44 H. Cephei]	5.68	A 0	1 7 26.374	+5.1748	+ 325	+79 22 55.27	+19.182	+ 2
1032	[χ Piscium]	4.89	K 0	1 8 29.508	+3.2248	+ 26	+20 44 33.97	+19.149	— 5
43	[τ Piscium]	4.70	K 0	1 8 37.440	+3.3043	+ 53	+29 47 53.49	+19.119	— 32
44	[102 G. Sculpt.]	5.91	A 5	1 10 13.486	+2.7634	+ 68	—38 8 50.89	+19.084	— 24
1033	[ζ Piscium pr]	5.57	A 5	1 10 51.259	+3.1347	+ 95	+ 7 17 6.11	+19.042	— 50
1034	[89 Piscium]	5.28	A 2	1 14 57.536	+3.0947	— 35	+ 3 19 31.42	+18.961	— 19
45	υ Piscium	4.67	A 2	1 16 26.204	+3.2976	+ 16	+26 58 32.00	+18.929	— 9
1035	[ξ Andromedae]	4.99	K 0	1 19 5.446	+3.5323	+ 31	+45 14 28.45	+18.871	+ 11
1036	[109 G. Sculpt.]	5.82	K 5	1 20 57.477	+2.7923	— 5	—31 13 54.00	+18.768	— 37

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
47	ϑ Ceti	3.83	K o	1 21 16.373	+2.9987	− 54	− 8 27 59.93	+18.579	−216
1037	[138 G. Ceti]	6.38	G 5	1 22 0.896	+3.0486	+ 11	− 3 8 3.67	+18.746	− 26
46	[ψ Cassiopeiae]	4.97	K o	1 22 1.012	+4.2358	+ 126	+67 50 37.59	+18.802	+ 30
48	δ Cassiopeiae	2.80	A 5	1 22 11.857	+3.9240	+ 396	+59 57 0.73	+18.720	− 46
1038	[9 G. Hydri]	5.82	K 5	1 23 11.291	+2.0742	+ 27	−64 39 18.23	+18.726	− 10
1039	[94 Piscium]	5.63	K o	1 23 43.096	+3.2403	+ 31	+18 57 21.63	+18.663	− 57
1041	[47 Ceti]	5.68	F o	1 24 8.683	+2.9606	+ 12	−13 20 30.76	+18.718	+ 12
1040	[ω Andromedae]	4.96	F 5	1 24 21.174	+3.5883	+ 321	+45 7 24.56	+18.599	−100
49	[γ Phoenicis]	3.40	K 5	1 25 58.731	+2.6053	− 16	−43 35 57.83	+18.450	−198
1043	[48 Ceti]	5.13	A o	1 26 57.822	+2.8780	+ 40	−21 54 47.80	+18.626	+ 9
1042	[38 Cassiopeiae]	5.95	F 5	1 27 6.025	+4.4608	+ 263	+69 58 57.07	+18.542	− 70
50	η Piscium	3.72	G 5	1 28 32.139	+3.2105	+ 18	+15 3 46.46	+18.562	− 3
1044	[δ Phoenicis]	3.96	K o	1 28 57.812	+2.4976	+ 137	−49 21 28.57	+18.713	+162
53	[14 G. Hydri]	6.06	G 5	1 33 15.942	+0.3992	− 74	−78 47 1.43	+18.288	−118
1045	[υ Andromedae]	4.18	G o	1 33 33.530	+3.5213	− 153	+41 7 52.14	+18.017	−378
51	40 Cassiopeiae	5.50	K o	1 34 4.450	+4.7889	− 36	+72 45 38.63	+18.366	− 10
1046	[π Piscium]	5.63	F o	1 34 10.722	+3.1808	− 46	+11 51 39.46	+18.422	+ 48
52	51 Andromedae	3.77	K o	1 34 36.215	+3.6827	+ 66	+48 21 1.44	+18.249	−109
54	α Eridani	0.60	B 5	1 35 40.115	+2.2350	+ 127	−57 30 56.11	+18.298	− 23
55	43 Cassiopeiae	5.54	A o p	1 38 14.145	+4.4412	+ 86	+67 45 57.20	+18.225	− 3
56	[ν Piscium]	4.68	K o	1 38 33.941	+3.1224	− 17	+ 5 12 36.01	+18.223	+ 7
1047	[+34° 297 Tria]	5.45	B 8	1 38 52.211	+3.4679	+ 38	+34 58 7.58	+18.176	− 30
58	[129 G. Sculpt.]	5.64	A o	1 39 37.507	+2.6435	− 39	−37 6 33.13	+18.159	− 19
1048	[π Sculptoris]	5.28	K o	1 39 39.654	+2.7069	− 62	−32 36 12.85	+18.162	− 15
1049	[175 G. Ceti]	5.27	G 5	1 39 56.542	+3.0339	− 1	− 3 57 59.52	+18.134	− 32
57	φ Persei	4.19	B o p	1 40 11.940	+3.7602	+ 26	+50 24 45.20	+18.145	− 11
59	τ Ceti	3.65	K o	1 41 30.726	+2.7873	−1192	−16 13 35.29	+18.967	+859
60	o Piscium	4.50	K o	1 42 29.128	+3.1684	+ 48	+ 8 52 54.12	+18.125	+ 54
61	ε Sculptoris	5.42	F o	1 43 4.201	+2.8100	+ 117	−25 19 36.39	+17.997	− 52
1050	[4 Arietis]	5.73	A o	1 45 11.616	+3.2540	+ 34	+16 40 56.84	+17.938	− 29
1051	[χ Ceti]	4.77	F o	1 46 52.915	+2.9466	− 103	−10 57 27.85	+17.812	− 90
1052	[2 Persei]	5.64	B 9	1 48 38.577	+3.8152	+ 12	+50 31 18.86	+17.809	− 23
62	ζ Ceti	3.92	K o	1 48 44.639	+2.9614	+ 25	−10 36 21.66	+17.795	− 33
64	α Trianguli	3.58	F 5	1 49 56.335	+3.4203	+ 8	+29 18 42.36	+17.549	−231
63	ε Cassiopeiae	3.44	B 3	1 50 24.754	+4.3142	+ 40	+63 24 1.15	+17.743	− 17
65	ξ Piscium	4.84	K o	1 50 42.306	+3.1062	+ 14	+ 2 55 0.58	+17.777	+ 28
67	ψ Phoenicis	4.41	M 3	1 51 26.551	+2.4053	− 82	−46 34 16.97	+17.640	− 79
66	β Arietis	2.72	A 5	1 51 35.765	+3.3144	+ 68	+20 32 24.03	+17.605	−108
1053	[φ Phoenicis]	5.00	B 9	1 52 5.108	+2.4887	− 38	−42 45 57.98	+17.674	− 18
69	[η^2 Hydri]	4.72	K o	1 53 32.310	+1.5203	+ 128	−67 55 2.48	+17.720	+ 87

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.ˢ0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
68	χ Eridani	3.73	G 5	1 53 49.147	+2.3351	+734	−51 52 55.24	+17.922	+301
72	α Hydri	3.02	F 0	1 57 2.231	+1.8908	+375	−61 50 12.68	+17.525	+ 40
71	υ Ceti	4.18	M 0	1 57 24.769	+2.8266	+ 93	−21 20 36.75	+17.453	− 16
1054	[4 Persei]	4.99	B 8	1 58 37.339	+3.9946	+ 37	+54 13 21.96	+17.419	+ 3
70	50 Cassiopeiae	4.06	A 2	1 58 41.479	+5.1187	−104	+72 9 23.65	+17.440	+ 28
73	γ Andromedae *pr*	2.28	K 0	2 0 30.770	+3.6831	+ 44	+42 4 0.65	+17.287	− 47
1055	[ν Fornacis]	4.74	A 0 p	2 2 1.500	+2.6889	+ 4	−29 33 36.16	+17.277	+ 9
74	α Arietis	2.23	K 2	2 4 4.004	+3.3822	+138	+23 12 11.90	+17.032	−144
75	β Trianguli	3.08	A 5	2 6 15.724	+3.5701	+119	+34 43 41.32	+17.038	− 38
1056	[15 Arietis]	5.92	M 0	2 7 34.331	+3.3259	+ 62	+19 14 30.67	+16.993	− 23
77	[Br 299 Andr]	5.40	K 0	2 9 55.961	+3.9903	+366	+50 48 41.44	+16.740	−166
1057	[19 Arietis]	5.99	K 5	2 10 3.005	+3.2726	+ 66	+15 1 22.92	+16.884	− 17
1058	[ξ¹ Ceti]	4.54	G 5	2 10 4.845	+3.1801	− 16	+ 8 35 22.93	+16.897	− 2
76	55 Cassiopeiae	6.15	F 5 + A 2	2 10 8.150	+4.7062	− 23	+66 16 4.89	+16.895	0
78	μ Fornacis	5.24	A 0	2 10 29.157	+2.6421	+ 14	−30 58 51.67	+16.892	+ 12
1060	[135 G. Phoenicis]	5.86	K 0	2 12 18.356	+2.4270	− 27	−41 25 20.08	+16.768	− 26
1059	[21 Arietis]	5.64	F 5	2 12 35.148	+3.4041	− 66	+24 47 21.23	+16.702	− 78
79	[γ Trianguli]	4.07	A 0	2 14 2.165	+3.5668	+ 35	+33 35 38.25	+16.666	− 44
80	67 Ceti	5.70	G 5	2 14 14.286	+2.9928	+ 60	− 6 40 28.99	+16.595	−105
82	[φ Eridani]	3.78	B 8	2 14 32.673	+2.1435	+ 98	−51 45 57.83	+16.670	− 16
1062	[21 G. Fornacis]	6.74	G 5	2 15 0.019	+2.5430	+139	−36 14 14.40	+16.724	+ 60
81	[ϑ Arietis]	5.69	A 0	2 15 3.636	+3.3375	− 9	+19 38 51.87	+16.663	+ 3
1061	[232 G. Ceti]	5.82	F 8	2 15 9.795	+3.1169	+243	+ 1 29 55.55	+17.037	+381
1063	[62 Andromedae]	5.12	A 0	2 15 43.101	+3.8711	− 57	+47 7 38.73	+16.626	− 2
1064	[239 G. Ceti]	5.99	K 0	2 19 29.434	+2.8275	+ 12	−17 54 41.59	+16.391	− 51
83	[ϰ Fornacis]	5.37	F 5	2 20 1.523	+2.7455	+147	−24 3 55.47	+16.361	− 55
1065	[δ Hydri]	4.26	A 2	2 20 45.861	+1.0687	− 80	−68 54 33.53	+16.393	+ 13
1067	[ϰ Hydri]	6.00	K 0	2 22 31.569	+0.3588	−187	−73 53 41.40	+16.301	+ 11
1066	[ρ Ceti]	4.90	A 0	2 23 17.461	+2.8981	− 12	−12 32 15.35	+16.247	− 3
84	[λ Horologii]	5.47	F 2	2 23 21.534	+1.6776	− 95	−60 33 27.34	+16.122	−125
1068	[12 Trianguli]	5.38	F 0	2 24 56.049	+3.5173	− 15	+29 25 29.84	+16.082	− 83
86	[ϰ Eridani]	4.44	B 5	2 24 58.154	+2.1994	+ 21	−47 56 59.88	+16.163	− 1
85	ξ² Ceti	4.34	A 0	2 25 13.838	+3.1900	+ 25	+ 8 12 52.49	+16.148	− 2
1069	[27 Arietis]	6.41	G 5	2 27 51.027	+3.3282	+ 22	+17 27 41.99	+15.933	− 81
1070	[14 Trianguli]	5.35	K 0	2 28 44.222	+3.6617	+ 37	+35 54 16.39	+15.985	+ 19
1071	[σ Ceti]	4.82	F 5	2 29 28.729	+2.8433	− 52	−15 29 6.52	+15.810	−117
88	[λ¹ Fornacis]	5.88	K 0	2 30 49.377	+2.5014	− 19	−34 53 27.92	+15.839	− 17
87	36 H. Cassiop.	5.34	K 0	2 32 45.192	+5.6991	− 80	+72 34 46.73	+15.773	+ 23
90	μ Hydri	5.29	K 0	2 32 47.243	−1.2734	+459	−79 20 58.49	+15.716	− 36
1072	[ν Ceti]	5.04	G 5	2 32 59.045	+3.1486	− 21	+ 5 21 15.37	+15.718	− 21

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Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
1073	[268 G. Ceti]	5.92	K 0	2 33 3.652	+3.2903	+1210	+ 6 37 31.90	+17.198	+1463
1074	[80 Ceti]	5.71	K 5	2 33 17.463	+2.9532	− 25	− 8 4 11.42	+15.668	− 55
89	ν Arietis	5.36	A 2	2 35 41.223	+3.4069	− 9	+21 43 29.07	+15.579	− 13
91	δ Ceti	4.04	B 2	2 36 39.608	+3.0752	+ 7	+ 0 5 32.44	+15.542	+ 3
1075	[ι Eridani]	4.06	K 0	2 38 29.774	+2.3674	+ 115	−40 5 23.78	+15.412	− 25
95	[ε Hydri]	4.26	B 9	2 38 44.184	+0.9241	+ 171	−68 30 7.75	+15.440	+ 16
1076	[ζ Horologii]	5.26	F 2	2 38 56.908	+1.8678	+ 48	−54 47 5.01	+15.422	+ 10
92	[Br 366 Cass]	5.84	A 2	2 40 3.691	+5.1600	+ 23	+67 35 33.80	+15.319	− 29
94	[35 Arietis]	4.58	B 3	2 40 13.043	+3.5210	+ 5	+27 28 27.75	+15.335	− 5
93	ϑ Persei	4.22	F 8	2 40 25.787	+4.0980	+ 344	+48 59 50.23	+15.244	− 83
1077	[14 Persei]	5.58	G 5	2 40 29.570	+3.9071	+ 3	+44 3 52.40	+15.319	− 6
97	π Ceti	4.39	B 5	2 41 30.195	+2.8553	− 6	−14 5 26.33	+15.257	− 11
1078	[43 G. Fornacis]	6.87	G 0	2 41 47.870	+2.6678	+ 123	−25 43 40.90	+15.312	+ 61
98	μ Ceti	4.36	F 0	2 41 57.881	+3.2434	+ 190	+ 9 52 58.95	+15.211	− 30
99	[η Persei]	3.95	K 0	2 46 40.037	+4.3764	+ 22	+55 40 7.75	+14.960	− 10
100	41 Arietis	3.68	B 8	2 46 44.373	+3.5317	+ 49	+27 2 6.24	+14.853	− 113
101	β Fornacis	4.50	K 0	2 46 47.289	+2.5112	+ 72	−32 38 9.42	+15.128	+ 163
1079	[σ Arietis]	5.46	B 5	2 48 27.087	+3.3131	+ 22	+14 51 23.81	+14.843	− 23
102	τ² Eridani	4.81	K 0	2 48 32.547	+2.7213	− 36	−21 13 47.20	+14.843	− 18
103	τ Persei	4.06	G 0 + A 5	2 50 20.590	+4.2538	+ 3	+52 32 20.12	+14.752	− 2
104	η Eridani	4.05	K 0	2 53 44.304	+2.9311	+ 53	− 9 6 57.40	+14.339	− 214
1080	[40 G. Eridani]	5.27	A 2	2 53 51.842	+3.0077	− 23	− 3 55 57.60	+14.504	− 41
1081	[47 Arietis]	5.85	F 0	2 54 55.992	+3.4342	+ 165	+20 26 57.75	+14.453	− 28
1082	[24 Persei]	4.97	K 0	2 55 38.688	+3.7171	− 42	+34 57 50.63	+14.447	+ 10
106	ϑ Eridani *pr*	3.42	A 2	2 56 10.497	+2.2745	− 46	−40 31 27.02	+14.432	+ 26
1083	[λ Ceti]	4.69	B 5	2 56 45.782	+3.2157	+ 1	+ 8 41 21.70	+14.359	− 10
105	47 H. Cephei	5.72	M 0	2 58 41.186	+7.9883	− 138	+79 12 15.13	+14.261	+ 11
107	α Ceti	2.82	M 0	2 59 24.068	+3.1364	− 6	+ 3 52 30.54	+14.135	− 73
1084	[−18° 516 Erid.]	7.40	F 0	2 59 30.839	+2.7575	− 17	−18 25 22.62	+14.179	− 22
1085	[τ³ Eridani]	4.16	A 3	2 59 57.952	+2.6453	− 105	−23 50 20.55	+14.126	− 47
108	γ Persei	3.08	F 5 + A 3	3 0 47.861	+4.3453	+ 1	+53 17 33.72	+14.118	− 2
1086	[58 G. Eridani]	5.66	K 0	3 1 2.969	+2.0504	+ 18	−47 11 22.98	+14.120	+ 14
109	ρ Persei	3.2–4.1	M 3	3 1 38.569	+3.8448	+ 111	+38 37 42.98	+13.964	− 104
113	[ϑ Hydri]	5.52	B 8	3 2 7.671	+0.1246	+ 65	−72 7 1.79	+14.063	+ 23
110	μ Horologii	5.16	F 0	3 2 18.843	+1.4135	− 101	−59 57 1.50	+13.976	− 52
111	β Persei	2.2–3.5	B 8	3 4 34.845	+3.9041	+ 6	+40 44 43.09	+13.887	+ 3
1087	[63 G. Eridani]	7.16	G 0	3 4 42.686	+2.8340	+ 6	−13 58 6.83	+13.624	− 253
112	[ι Persei]	4.17	G 0	3 5 5.057	+4.3298	+1297	+49 24 17.89	+13.776	− 76
1088	[55 Arietis]	5.60	B 9	3 6 17.786	+3.6098	+ 15	+28 52 6.31	+13.766	− 10
114	δ Arietis	4.53	K 0	3 8 28.727	+3.4311	+ 107	+19 31 12.19	+13.632	− 5

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
116	[94 Ceti]	5.14	F 8	3 9 57.848	+3.0623	+ 131	− 1 24 2.04	+13.483	− 59
118	[38 G. Horologii]	5.72	N 0	3 11 9.333	+1.5192	+ 11	−57 31 36.59	+13.483	+ 17
1089	[ζ Arietis]	4.95	A 0	3 11 44.076	+3.4490	− 19	+20 50 31.10	+13.355	− 72
1090	79 G. Fornacis	6.85	G 0	3 12 30.240	+2.3590	+ 24	−35 45 40.86	+13.389	+ 12
1091	[ζ Eridani]	4.90	A 3	3 13 9.572	+2.9144	− 4	− 9 1 22.29	+13.385	+ 51
115	48 H. Cephei	5.50	F 0	3 13 15.850	+7.6092	+ 196	+77 32 8.41	+13.269	− 55
1092	[Lac 1044 Forn]	6.89	A 0	3 14 39.796	+2.4585	+ 14	−31 33 10.03	+13.217	− 19
1093	[κ Ceti]	4.96	G 5	3 16 28.390	+3.1470	+ 178	+ 3 10 11.23	+13.215	+ 99
1095	[ι Hydri]	5.53	F 2	3 17 17.276	−1.4973	+ 337	−77 35 23.12	+13.132	+ 67
119	[82 G. Eridani]	4.30	G 5	3 17 43.863	+2.3959	+2786	−43 16 44.40	+13.787	+753
1094	[τ Arietis]	5.17	B 3	3 18 2.779	+3.4642	+ 19	+20 57 0.53	+12.987	− 25
1096	[Pi 3h27 Caml]	5.55	K 2	3 19 52.495	+5.2070	− 13	+64 23 29.62	+12.893	+ 4
120	α Persei	1.90	F 5	3 20 23.030	+4.2836	+ 30	+49 40 1.89	+12.833	− 22
121	ο Tauri	3.80	G 5	3 21 50.979	+3.2289	− 45	+ 8 50 12.04	+12.686	− 71
123	[ξ Tauri]	3.75	B 8	3 24 11.068	+3.2518	+ 39	+ 9 32 32.50	+12.567	− 32
122	2 H.Camelopard.	4.44	B 9 p	3 24 35.751	+4.8578	− 2	+59 45 2.29	+12.569	0
124	[σ Persei]	4.55	K 0	3 26 41.130	+4.2304	+ 8	+47 48 25.71	+12.452	+ 24
125	5 Tauri	4.28	K 0	3 27 49.946	+3.3129	+ 15	+12 44 58.58	+12.352	+ 3
1097	[17 Eridani]	4.80	B 9	3 27 53.149	+2.9770	+ 8	− 5 15 44.78	+12.359	+ 13
126	[κ Reticuli]	4.80	F 5	3 28 24.666	+1.0471	+ 549	−63 7 51.16	+12.692	+381
1098	[+34° 674 Pers]	5.80	B 3	3 29 9.430	+3.8204	− 7	+35 16 34.66	+12.261	+ 4
127	ε Eridani	3.81	K 0	3 30 20.223	+2.8269	− 660	− 9 38 35.70	+12.197	+ 20
128	[45 G. Horologii]	5.60	K 0	3 30 56.155	+1.7877	+ 75	−50 33 52.18	+12.222	+ 87
1099	[τ5 Eridani]	4.32	B 8	3 31 21.403	+2.6500	+ 30	−21 48 58.44	+12.080	− 25
1100	[20 Eridani]	5.32	A 0 p	3 33 46.929	+2.7334	+ 17	−17 38 52.72	+11.930	− 5
1101	[10 Tauri]	4.40	G 5	3 34 3.789	+3.0620	− 155	+ 0 13 42.39	+11.435	−480
130	[110 G. Eridani]	4.58	K 0	3 35 7.143	+2.1527	− 13	−40 27 14.71	+11.819	− 23
1102	[τ Fornacis]	6.08	A 0	3 36 30.286	+2.4959	+ 13	−28 7 18.12	+11.770	+ 27
129	[Grb 716 Caml]	5.32	M 0	3 37 21.633	+5.2053	− 27	+63 2 26.30	+11.698	+ 17
1103	[11 Tauri]	6.15	A 0	3 37 28.864	+3.5841	+ 8	+25 9 11.45	+11.664	− 10
131	δ Persei	3.10	B 5	3 38 59.886	+4.2720	+ 31	+47 36 48.72	+11.533	− 32
133	[δ Fornacis]	4.93	B 5	3 40 3.548	+2.3862	0	−32 6 46.75	+11.509	+ 19
135	[δ Eridani]	3.72	K 0	3 40 36.676	+2.8746	− 63	− 9 56 54.05	+12.197	+746
134	ν Persei	3.93	F 5	3 41 26.909	+4.0766	− 8	+42 24 23.70	+11.389	0
136	[17 Tauri]	3.81	B 5 p	3 41 36.243	+3.5631	+ 15	+23 56 31.18	+11.337	− 41
137	[24 Eridani]	5.09	B 8	3 41 42.710	+3.0476	0	− 1 20 6.93	+11.368	− 3
1104	[29 Tauri]	5.36	B 3	3 42 44.889	+3.1881	+ 12	+ 5 52 45.20	+11.292	− 5
141	β Reticuli	3.80	K 0	3 43 30.151	+0.7515	+ 481	−64 58 46.56	+11.326	+ 83
139	η Tauri	2.96	B 5 p	3 44 12.591	+3.5668	+ 15	+23 56 11.82	+11.147	− 44
140	τ6 Eridani	4.33	F 8	3 44 28.813	+2.5813	− 116	−23 24 39.68	+10.648	−524

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Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
138	γ Camelopard.	4.67	A 0	3 44 30.918	+6.3302	+ 38	+71 9 56.02	+11.127	− 38
142	[27 Tauri]	3.80	B 8	3 45 53.191	+3.5679	+ 13	+23 53 12.54	+11.026	− 43
143	138 G. Eridani	4.24	K 0	3 47 23.663	+2.2451	− 43	−36 21 56.57	+10.916	− 43
146	γ Hydri	3.17	M 0	3 48 4.127	−0.9300	+130	−74 24 28.56	+11.031	+120
1105	+57° 752 Caml	5.79	A 0	3 49 14.417	+4.8708	+106	+57 48 49.34	+10.724	− 98
1106	[Pi 3h 187 Taur]	5.96	F 0	3 50 1.059	+3.4313	+100	+17 9 53.21	+10.738	− 27
1107	[145 G. Eridani]	6.55	B 9	3 50 26.565	+2.9382	− 5	− 6 47 46.36	+10.736	+ 1
144	ζ Persei	2.91	B 1	3 50 40.108	+3.7719	+ 7	+31 43 19.02	+10.708	− 10
1108	[55 G. Horologii]	5.77	K 0	3 51 50.976	+1.8591	+ 29	−47 3 16.31	+10.601	− 30
147	ε Persei	2.96	B 1	3 54 9.309	+4.0265	+ 18	+39 51 10.33	+10.432	− 26
148	ξ Persei	4.05	O e 5	3 55 23.364	+3.8935	+ 4	+35 38 4.63	+10.365	− 1
149	γ Eridani	3.19	K 5	3 55 27.688	+2.7995	+ 44	−13 39 49.35	+10.254	−108
1109	[17 G. Reticuli]	6.14	F 2	3 57 31.853	+1.2883	+ 33	−57 15 28.00	+10.223	+ 16
150	λ Tauri	3.8–4.1	B 3	3 57 37.761	+3.3244	− 4	+12 20 11.08	+10.187	− 11
1110	[δ Reticuli]	4.41	M 0	3 57 52.188	+0.9494	+ 8	−61 33 18.30	+10.168	− 13
1111	[35 Eridani]	5.25	B 5	3 58 44.640	+3.0403	+ 14	− 1 42 8.56	+10.102	− 12
151	ν Tauri	3.94	A 0	4 0 13.625	+3.1917	+ 1	+ 5 50 17.52	+10.003	+ 1
1114	[63 G. Hydri]	6.72	A 0	4 1 2.243	−0.3523	+ 57	−71 19 10.07	+ 9.984	+ 41
1112	[37 Tauri]	4.50	K 0	4 1 26.330	+3.5475	+ 66	+21 55 59.84	+ 9.856	− 54
1113	[λ Persei]	4.33	A 0	4 2 28.564	+4.4700	− 10	+50 12 14.34	+ 9.795	− 36
153	174 G. Eridani	5.57	A 5	4 3 21.334	+2.4733	+153	−27 48 3.97	+ 9.870	+105
152	48 Persei	4.03	B 3 p	4 4 39.534	+4.3562	+ 24	+47 34 3.67	+ 9.636	− 27
1115	[43 Tauri]	5.67	G 5	4 5 57.452	+3.4959	+ 76	+19 27 55.53	+ 9.536	− 29
1116	[44 Tauri]	5.55	F 0	4 7 28.582	+3.6545	− 22	+26 20 20.72	+ 9.412	− 36
154	o¹ Eridani	4.14	F 2	4 9 10.702	+2.9289	+ 6	− 6 58 46.60	+ 9.402	+ 86
1117	[μ Persei]	4.28	G 0	4 10 50.977	+4.4056	+ 8	+48 16 17.79	+ 9.168	− 18
155	α Horologii	3.83	K 0	4 12 10.626	+1.9878	+ 32	−42 25 44.43	+ 8.880	−204
1118	[μ Tauri]	4.32	B 3	4 12 32.667	+3.2583	+ 15	+ 8 45 22.05	+ 9.035	− 19
156	α Reticuli	3.36	G 5	4 13 42.659	+0.7728	+ 61	−62 36 39.95	+ 9.018	+ 53
157	[γ Doradus]	4.36	F 5	4 14 34.978	+1.5720	+107	−51 37 28.24	+ 9.089	+192
159	[γ Tauri]	3.86	K 0	4 16 39.582	+3.4148	+ 81	+15 29 47.10	+ 8.709	− 23
158	[54 Persei]	5.10	G 5	4 16 49.987	+3.8961	− 20	+34 26 8.66	+ 8.712	− 6
1119	[208 G. Eridani]	6.65	B 9	4 17 39.580	+2.7163	+ 16	−16 34 4.17	+ 8.650	− 4
161	[212 G. Eridani]	5.31	A 0	4 18 14.964	+2.6175	+ 19	−20 46 10.55	+ 8.599	− 8
162	δ Tauri	3.93	K 0	4 19 45.548	+3.4605	+ 76	+17 24 54.55	+ 8.460	− 27
1120	[ξ Eridani]	5.23	A 2	4 20 56.369	+2.9875	− 36	− 3 52 16.51	+ 8.339	− 55
163	[η Reticuli]	5.18	K 0	4 21 17.312	+0.6491	+128	−63 30 59.75	+ 8.542	+175
166	[δ Mensae]	5.62	K 0 p	4 21 38.650	−4.0543	+128	−80 20 40.57	+ 8.411	+ 69
1121	[43 Eridani]	4.06	K 5	4 21 58.122	+2.2533	+ 46	−34 8 36.38	+ 8.367	+ 54
1122	[+69° 258 Caml]	7.02	K 0	4 24 3.798	+6.2990	+ 16	+69 15 28.77	+ 8.113	− 30

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
164	ε Tauri	3.63	K 0	4 25 24.068	+3.5038	+ 77	+19 3 36.45	+8.003	− 34
1123	[Br 615 Taur]	5.50	B 8	4 25 41.368	+3.1010	+ 9	+ 1 15 37.15	+7.995	− 20
165	[1 Camelop. sq]	5.86	B 1	4 27 39.793	+4.7524	0	+53 47 36.77	+7.854	− 1
167	[δ Caeli]	5.16	B 3	4 29 8.918	+1.8377	+ 1	−45 4 15.10	+7.739	+ 2
1124	[57 Persei]	6.07	F 0	4 29 32.284	+4.2221	+ 6	+42 56 54.43	+7.708	+ 4
1125	[ρ Tauri]	4.75	A 5	4 30 43.410	+3.4050	+ 68	+14 43 49.58	+7.586	− 23
168	α Tauri	1.06	K 5	4 32 45.688	+3.4430	+ 47	+16 24 1.27	+7.256	−188
171	α Doradus	3.47	A op	4 32 48.301	+1.2967	+ 57	−55 9 28.74	+7.447	+ 5
170	[υ² Eridani]	3.88	K 0	4 33 24.639	+2.3327	− 39	−30 40 25.75	+7.382	− 10
169	ν Eridani	4.12	B 2	4 33 34.114	+2.9982	+ 2	− 3 27 48.44	+7.377	− 2
172	53 Eridani	3.98	K 0	4 35 39.599	+2.7481	− 48	−14 24 36.83	+7.048	−161
1127	[258 G. Eridani]	5.59	K 0	4 37 49.481	+2.4961	− 45	−24 35 19.46	+7.049	+ 18
1126	[Pi 4h 148 Taur]	5.68	A 0	4 37 52.936	+3.7557	+ 28	+28 30 36.70	+6.994	− 32
1129	[α Caeli]	4.52	F 2	4 38 47.241	+1.9323	−138	−41 58 4.20	+6.876	− 77
174	τ Tauri	4.33	B 5	4 38 56.398	+3.6014	− 1	+22 51 11.44	+6.925	− 15
1128	[Grb 866 Pers]	5.77	B 8	4 39 10.271	+4.5607	− 2	+49 52 15.14	+6.901	− 19
1130	[β Caeli]	5.08	F 5	4 40 6.647	+2.1212	+ 30	−37 15 2.41	+7.043	+199
173	Grb 848 Caml	6.04	F 0	4 41 23.683	+8.0740	+104	+75 50 41.89	+6.599	−134
1131	[56 Eridani]	5.87	B 5	4 41 26.613	+2.8825	− 3	− 8 36 17.51	+6.734	0
176	[μ Eridani]	4.18	B 5	4 42 44.996	+3.0002	+ 9	− 3 21 14.32	+6.617	− 10
175	4 Camelopard.	5.35	A 2	4 43 24.734	+4.9987	+ 65	+56 39 43.07	+6.425	−145
177	[μ Mensae]	5.69	B 9	4 43 36.253	−0.5983	+ 20	−71 1 55.80	+6.592	+ 34
1132	[268 G. Eridani]	5.97	A 2	4 44 13.911	+2.3960	+ 1	−28 11 8.80	+6.521	+ 16
1133	[Br 658 Pers]	5.10	K 2	4 46 12.190	+4.0391	− 30	+37 23 35.32	+6.379	+ 39
1134	[π³ Orionis]	3.31	F 8	4 46 51.111	+3.2572	+312	+ 6 52 0.86	+6.305	+ 19
1135	[97 Tauri]	5.12	F 0	4 48 9.200	+3.5103	+ 57	+18 44 52.70	+6.144	− 34
179	[π⁴ Orionis]	3.78	B 3	4 48 16.446	+3.1957	− 2	+ 5 30 45.56	+6.171	+ 3
178	α Camelopard.	4.38	B 0	4 48 33.975	+5.9644	+ 3	+66 15 8.08	+6.151	+ 9
1136	[o¹ Orionis]	5.19	M 0	4 49 25.077	+3.3942	− 3	+14 9 38.23	+6.017	− 56
180	π⁵ Orionis	3.87	B 3	4 51 23.032	+3.1254	− 3	+ 2 21 7.84	+5.912	+ 3
181	ι Aurigae	2.90	K 2	4 53 24.448	+3.9075	+ 3	+33 4 51.38	+5.721	− 18
1138	[η Mensae]	5.28	K 0	4 56 45.139	−1.7249	+ 71	−75 1 20.32	+5.521	+ 59
183	ε Aurigae	3.1–3.8	F 5p	4 58 1.010	+4.3060	+ 4	+43 44 38.62	+5.346	− 6
182	β Camelopard.	4.22	G op	4 58 30.915	+5.3374	− 6	+60 21 52.24	+5.295	− 14
1137	[ζ Aurigae]	*4.9–6.6*	K 0 + B 1	4 58 37.712	+4.1943	+ 10	+40 59 51.48	+5.279	− 22
184	ι Tauri	4.70	A 5	4 59 48.289	+3.5866	+ 47	+21 30 47.54	+5.161	− 40
1139	[26 G. Caeli]	6.00	K 0	5 0 17.820	+2.2703	− 8	−31 51 0.72	+5.243	+ 83
1140	[11 Orionis]	4.65	B 9	5 1 25.404	+3.4287	+ 11	+15 19 45.04	+5.031	− 34
185	η Aurigae	3.28	B 3	5 2 39.172	+4.2077	+ 27	+41 9 44.04	+4.894	− 66
186	ε Leporis	3.29	K 5	5 3 7.878	+2.5400	+ 18	−22 26 36.97	+4.852	− 69

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Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
187	[η² Pictoris]	4.92	K 5	5 3 32.340	+1.5533	+ 55	−49 39 5.76	+4.886	0
189	[ζ Doradus]	4.76	F 8	5 4 33.857	+1.0280	− 52	−57 32 50.17	+4.918	+118
188	β Eridani	2.92	A 3	5 5 8.626	+2.9497	− 64	− 5 9 21.68	+4.672	− 77
1143	[13 G. Pictoris]	7.10	A 0	5 5 48.047	+1.7816	+ 25	−44 53 33.03	+4.720	+ 25
1141	[+27°732 Taur *pr*]	5.97	A 3	5 6 17.688	+3.7675	+ 43	+27 57 44.75	+4.585	− 66
1142	[16 Orionis]	5.42	A 2	5 6 17.939	+3.3009	+ 41	+ 9 45 38.06	+4.648	− 3
190	[λ Eridani]	4.34	B 2	5 6 30.747	+2.8715	+ 1	− 8 49 23.40	+4.631	− 3
192	μ Aurigae	4.78	A 3	5 9 39.619	+4.1059	− 17	+38 25 16.81	+4.286	− 78
1144	[μ Leporis]	3.30	A op	5 10 27.552	+2.6951	+ 28	−16 16 9.38	+4.269	− 28
194	β Orionis	0.34	B 8p	5 11 53.584	+2.8836	+ 2	− 8 15 49.44	+4.174	− 1
193	α Aurigae	0.21	G 0	5 12 37.310	+4.4329	+ 81	+45 56 39.71	+3.688	−423
191	19 H. Camelop.	5.24	F 8	5 13 27.135	+9.8879	−292	+79 10 22.48	+4.194	+159
196	ϑ Doradus	4.78	K 0	5 13 47.570	−0.0473	+ 10	−67 14 50.15	+4.049	+ 35
195	[τ Orionis]	3.68	B 5	5 14 56.040	+2.9134	− 11	− 6 54 8.55	+3.906	− 8
1145	[λ Aurigae]	4.85	G 0	5 15 16.111	+4.2210	+458	+40 3 8.37	+3.222	−663
197	[o Columbae]	4.91	K 0	5 15 29.965	+2.1638	+ 69	−34 56 52.57	+3.528	−338
1146	[λ Leporis]	4.29	B 1	5 17 2.383	+2.7643	− 2	−13 13 55.78	+3.731	− 2
198	[12 G. Columbae]	5.75	A 0	5 17 12.093	+2.3924	+ 5	−27 25 26.84	+3.715	− 4
199	[ζ Pictoris]	5.52	F 8	5 18 0.997	+1.4710	+ 10	−50 39 51.44	+3.884	+234
1147	[22 Orionis]	4.65	B 3	5 18 57.159	+3.0631	− 2	− 0 26 6.84	+3.567	− 1
201	γ Orionis	1.70	B 2	5 22 10.747	+3.2181	− 6	+ 6 18 5.26	+3.276	− 15
202	β Tauri	1.78	B 8	5 22 48.751	+3.7930	+ 20	+28 33 46.46	+3.060	−175
1148	[115 Tauri]	5.31	B 3	5 23 57.434	+3.5002	+ 4	+17 54 59.95	+3.113	− 24
203	17 Camelopard.	5.75	K 5	5 24 58.069	+5.6672	− 7	+63 1 27.04	+3.046	− 2
1149	[18 G. Columbae]	5.85	A 2	5 25 19.254	+1.9245	− 8	−40 59 24.35	+3.114	+ 95
204	[β Leporis]	2.96	G 0	5 25 53.254	+2.5712	+ 1	−20 48 7.33	+2.879	− 91
1150	[18 Camelopard.]	6.46	G 0	5 27 50.856	+5.1396	+146	+57 11 5.64	+2.581	−218
1152	[20 G. Pictoris]	5.54	G 5	5 28 38.623	+1.6493	+ 14	−47 6 58.70	+2.606	−127
1151	[χ Aurigae]	4.88	B 1	5 29 8.718	+3.9056	0	+32 9 12.11	+2.685	− 3
206	δ Orionis	2.48	B 0	5 29 11.695	+3.0653	0	− 0 20 17.66	+2.685	+ 1
207	α Leporis	2.69	F 0	5 30 18.177	+2.6464	+ 2	−17 51 36.99	+2.592	+ 4
208	[φ¹ Orionis]	4.53	B 0	5 31 47.945	+3.2939	− 1	+ 9 27 14.44	+2.455	− 2
205	Grb 966 Caml	6.36	K 5	5 32 21.389	+8.0260	− 20	+75 0 41.52	+2.431	+ 26
209	ι Orionis	2.89	O e 5	5 32 44.462	+2.9351	+ 1	− 5 56 39.94	+2.380	+ 4
212	β Doradus	*4.2-5.7*	F 5 v	5 33 8.671	+0.5202	− 11	−62 31 31.86	+2.351	+ 9
210	ε Orionis	1.75	B 0	5 33 25.257	+3.0445	0	− 1 14 7.67	+2.318	+ 1
214	[γ Mensae]	5.06	K 0	5 34 3.076	−2.3758	+307	−76 22 52.68	+2.560	+294
211	ζ Tauri	3.00	B 3p	5 34 21.334	+3.5859	+ 1	+21 6 38.90	+2.213	− 22
1153	[35 G. Columbae]	6.75	K 2	5 35 55.478	+2.3898	+ 8	−27 14 29.38	+2.090	− 9
215	α Columbae	2.75	B 5p	5 37 39.347	+2.1729	+ 2	−34 6 8.20	+1.923	− 26

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		m		h m s	s		° ' ''	''	
216	o Aurigae	5.52	A 0	5 41 38.190	+4.6485	— 10	+49 48 16.49	+1.598	— 3
217	[γ Leporis]	3.80	F 8	5 42 10.164	+2.5018	—206	—22 27 54.11	+1.185	—371
218	[130 Tauri]	5.51	F 0	5 44 13.661	+3.4984	— 4	+17 42 36.87	+1.368	— 8
219	ζ Leporis	3.67	A 2	5 44 27.713	+2.7187	— 12	—14 50 28.05	+1.351	— 5
1154	[δ Doradus]	4.52	A 5	5 44 40.367	+0.1077	— 51	—65 45 21.92	+1.346	+ 7
220	κ Orionis	2.20	B 0	5 45 8.799	+2.8458	+ 2	— 9 41 15.86	+1.292	— 4
1155	[142 G. Orionis]	5.95	G 5	5 45 50.857	+2.9811	+ 37	— 4 6 28.92	+1.033	—202
221	[ν Aurigae]	4.18	K 0	5 47 40.546	+4.1583	— 5	+39 8 4.15	+1.081	+ 7
1156	[γ Pictoris]	4.38	K 0	5 48 49.542	+1.0895	+ 84	—56 10 46.83	+0.914	— 63
222	[δ Leporis]	3.90	K 0	5 48 57.310	+2.5807	+167	—20 52 56.74	+0.315	—649
223	[β Columbae]	3.22	K 0	5 49 1.144	+2.1150	+ 39	—35 47 16.34	+1.363	+404
1159	[37 G. Pictoris]	4.98	K 0	5 49 38.490	+1.3577	+ 5	—52 7 14.88	+0.825	— 79
1158	[136 Tauri]	4.54	A 0	5 49 52.131	+3.7715	+ 4	+27 36 4.16	+0.869	— 14
1157	[ξ Aurigae]	4.92	A 2	5 50 14.055	+5.0283	— 17	+55 41 48.24	+0.871	+ 20
224	α Orionis	0.1—1.2	M 0	5 52 11.579	+3.2484	+ 19	+ 7 23 54.59	+0.692	+ 11
226	[η Leporis]	3.77	F 0	5 53 53.906	+2.7329	— 29	—14 10 34.94	+0.669	+138
225	δ Aurigae	3.88	K 0	5 54 59.819	+4.9407	+ 97	+54 16 58.68	+0.307	—127
227	β Aurigae	2.07	A 0p	5 55 29.580	+4.4015	— 50	+44 56 38.73	+0.388	— 3
1160	[γ Columbae]	4.36	B 3	5 55 35.135	+2.1275	— 2	—35 17 17.02	+0.394	+ 9
1161	[60 Orionis]	5.25	A 0	5 55 59.807	+3.0850	— 10	+ 0 32 57.99	+0.348	+ 1
1162	+33° 1209 Auri	6.80	A 2	5 56 37.352	+3.9444	— 9	+33 8 5.64	+0.299	+ 6
229	η Columbae	4.03	K 0	5 57 27.692	+1.8365	+ 13	—42 49 2.38	+0.203	— 17
1163	[1 Geminorum]	4.30	G 5	6 0 46.543	+3.6474	— 4	+23 16 5.29	—0.174	—104
230	[66 Orionis]	5.70	K 0	6 2 3.902	+3.1700	— 4	+ 4 9 48.12	—0.190	— 7
231	[1 G. Puppis]	6.22	F 8	6 2 53.338	+1.7266	— 88	—45 2 7.50	—0.007	+247
1164	[74 G. Columbae]	5.72	A 0	6 3 58.393	+2.3102	+ 6	—29 45 4.60	—0.389	— 40
232	ν Orionis	4.40	B 2	6 4 25.824	+3.4259	+ 3	+14 46 36.33	—0.413	— 23
1165	[94 G. Leporis]	5.46	A 0	6 6 39.092	+2.5231	+ 9	—22 24 58.64	—0.619	— 36
233	[36 Camelopard.]	5.39	K 0	6 7 19.103	+6.0367	+ 12	+65 43 56.91	—0.673	— 29
1166	[ν Doradus]	5.21	B 9	6 9 5.481	—0.3843	— 95	—68 49 54.26	—0.772	+ 22
235	[δ Pictoris]	4.84	B 1	6 9 13.525	+1.1677	— 19	—54 57 20.26	—0.794	+ 13
1168	κ Aurigae	4.45	K 0	6 11 52.365	+3.8233	— 55	+29 31 12.86	—1.306	—265
239	[α Mensae]	5.14	K 0	6 11 52.900	—1.7859	+304	—74 44 6.41	—1.253	—215
1167	[Br 904 Auri *sq*]	6.42	F 0	6 11 56.595	+4.0433	— 53	+36 10 1.54	—1.039	+ 8
234	22 H. Camelop.	4.73	A 0	6 12 47.308	+6.6125	+ 8	+69 20 33.44	—1.226	—103
1169	[74 Orionis]	5.11	F 5	6 13 21.248	+3.3692	+ 54	+12 17 21.06	—0.984	+186
238	[κ Columbae]	4.51	K 0	6 14 35.594	+2.1339	— 14	—35 7 15.97	—1.193	+ 84
237	[2 Lyncis]	4.42	A 0	6 14 46.254	+5.2941	— 12	+59 2 0.48	—1.274	+ 20
1170	[7 Monocerotis]	5.13	B 3	6 17 3.762	+2.8903	— 4	— 7 47 54.18	—1.492	+ 1
240	ζ Canis maj.	3.10	B 3	6 18 12.028	+2.3034	+ 5	—30 2 15.79	—1.587	+ 5

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		m		h m s			° ' "	"	
241	μ Geminorum	3.19	M o	6 19 37.951	+ 3.6298	+ 40	+22 32 37.13	—1.830	— 112
243	β Canis maj.	1.99	B 1	6 20 16.589	+ 2.6422	— 4	—17 55 38.37	—1.776	— 4
242	ψ¹ Aurigae	5.10	K 2	6 20 39.777	+ 4.6214	+ 1	+49 19 5.84	—1.812	— 4
244	8 ε Monocerotis	4.48	A 5	6 20 51.162	+ 3.1795	— 12	+ 4 37 20.77	—1.813	+ 11
1171	[23 G. Canis maj.]	5.39	K o	6 21 36.331	+ 2.7990	+ 35	—11 29 56.86	—1.929	— 40
1172	[Grb 1156 Auri]	7.14	G 5	6 22 26.783	+ 4.2702	0	+41 59 31.44	—1.974	— 11
245	α Carinae	—0.86	F o	6 22 43.807	+ 1.3324	+ 24	—52 39 53.43	—1.960	+ 25
246	10 Monocerotis	4.98	B 3	6 25 14.535	+ 2.9627	— 6	— 4 43 35.76	—2.201	+ 4
1173	[ν Geminorum]	4.06	B 5	6 25 41.816	+ 3.5625	— 4	+20 14 55.34	—2.263	— 18
1174	[13 Monocerotis]	4.50	A op	6 29 55.742	+ 3.2445	— 2	+ 7 22 29.52	—2.619	— 7
1175	[56 G. Monocer.]	5.02	B 3	6 30 50.318	+ 3.0451	— 9	— 1 10 37.16	—2.715	— 24
247	8 Lyncis	6.05	G o	6 32 40.061	+ 5.4835	—289	+61 31 56.07	—3.130	— 279
249	ξ² Canis maj.	4.54	A o	6 32 44.993	+ 2.5145	+ 6	—22 55 11.84	—2.842	+ 14
251	γ Geminorum	1.93	A o	6 34 32.071	+ 3.4662	+ 30	+16 26 52.63	—3.056	— 44
250	51 Aurigae	5.71	K o	6 34 50.898	+ 4.1574	— 22	+39 26 28.83	—3.154	— 115
252	ν Puppis	3.18	B 8	6 36 4.611	+ 1.8355	— 7	—43 8 48.04	—3.145	— 1
248	23 H. Camelop.	5.60	F 8	6 36 53.111	+10.2486	—308	+79 37 45.42	—3.826	— 608
254	ε Geminorum	3.18	G 5	6 40 32.903	+ 3.6913	— 5	+25 11 14.66	—3.545	— 15
256	ξ Geminorum	3.40	F 5	6 42 12.129	+ 3.3673	— 80	+12 57 23.60	—3.867	— 195
257	*α Canis maj.	—1.58	A o	6 42 43.511	+ 2.6434	—373	—16 38 21.72	—4.927	—1211
255	[ψ⁵ Aurigae]	5.34	G o	6 42 46.583	+ 4.3248	— 1	+43 38 3.57	—3.560	+ 162
1176	[ψ⁶ Aurigae]	5.28	K o	6 43 28.109	+ 4.5743	— 4	+48 50 59.62	—3.777	+ 5
1177	16 Monocerotis	5.84	B 3	6 43 32.404	+ 3.2720	— 7	+ 8 38 49.22	—3.795	— 8
264	[ζ Mensae]	5.64	A 2	6 44 39.620	— 4.9863	— 23	—80 45 28.96	—3.818	+ 59
258	18 Monocerotis	4.70	K o	6 44 59.530	+ 3.1284	— 14	+ 2 28 26.09	—3.925	— 13
1178	[31 G. Puppis]	5.25	B 9	6 45 28.341	+ 2.0527	— 19	—37 52 4.58	—3.968	— 16
1179	[80 G. Monocer.]	5.65	A o	6 46 30.139	+ 3.0216	— 11	— 2 12 30.12	—4.037	+ 4
262	α Pictoris	3.30	A 5	6 47 37.623	+ 0.6156	—108	—61 52 54.80	—3.867	+ 269
259	[43 Camelopard.]	5.13	B 5	6 47 47.058	+ 6.4708	+ 2	+68 57 19.49	—4.149	+ 4
1180	[κ Canis maj.]	3.78	B 2 p	6 47 47.107	+ 2.2412	— 10	—32 26 37.67	—4.146	+ 4
263	[τ Puppis]	2.83	K o	6 48 34.200	+ 1.4884	+ 26	—50 32 53.89	—4.289	— 72
261	ϑ Geminorum	3.64	A 2	6 49 9.900	+ 3.9546	— 1	+34 1 46.21	—4.321	— 52
266	ϑ Canis maj.	4.25	K 2	6 51 38.019	+ 2.7876	— 95	—11 58 6.07	—4.494	— 14
260	24 H. Camelop.	4.75	K 5	6 52 4.494	+ 8.7558	+210	+77 3 6.54	—4.532	— 12
267	[ι Volantis]	5.52	B 8	6 52 5.076	— 0.6864	— 10	—70 53 42.86	—4.496	+ 20
268	ε Canis maj.	1.63	B 1	6 56 27.805	+ 2.3584	+ 4	—28 53 45.76	—4.888	+ 2
1181	[101 G. Monoc.]	5.84	A o	6 57 45.110	+ 2.8823	— 15	— 8 19 44.01	—5.009	— 10
1182	[ω Geminorum]	5.21	K o	6 59 3.746	+ 3.6558	— 7	+24 17 44.24	—5.114	— 3
1183	[σ Canis maj.]	3.68	K 5	6 59 31.632	+ 2.3904	— 4	—27 51 17.64	—5.148	+ 1
270	[o² Canis maj.]	3.12	B 5 p	7 0 43.621	+ 2.5056	— 1	—23 45 6.12	—5.249	+ 2

Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Volet, Bull. Astr. II, Bd. 7, 1931:

1945.0 $\Delta\alpha = +0^s.046$ $\Delta\delta = +0''.68$
1946.0 $= +0.030$ $= +0.94$

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m m		h m s	s		° ′ ″	″	
269	ζ Geminorum	3.7–4.1	G o p	7 0 50.834	+3.5585	− 7	+20 39 9.83	−5.264	− 3
271	γ Canis maj.	4.07	B 5	7 1 16.157	+2.7147	+ 1	−15 33 2.31	−5.306	− 9
1184	[C Puppis]	5.26	A 2	7 2 18.071	+1.9018	− 20	−42 15 18.28	−5.316	+ 67
272	[27 G. Carinae]	5.30	A o	7 3 16.762	+1.1174	− 12	−56 39 56.13	−5.463	+ 2
1185	[2 G. Canis min.]	5.92	K o	7 4 51.048	+3.2431	− 3	+ 7 33 32.86	−5.634	− 36
273	δ Canis maj.	1.98	F 8 p	7 6 9.243	+2.4397	− 3	−26 18 16.74	−5.702	+ 5
1186	[20 Monocerotis]	5.02	K o	7 7 29.734	+2.9803	− 1	− 4 8 59.24	−5.605	+ 215
274	63 Aurigae	5.07	K 2	7 7 52.474	+4.1269	+ 36	+39 24 43.98	−5.854	− 2
1187	[22 δ Monocerot.]	4.09	A o	7 9 3.300	+3.0639	− 3	− 0 24 0.60	−5.944	+ 6
1189	[γ² Volantis]	3.87	K o	7 9 13.315	−0.5071	+ 44	−70 24 35.58	−5.864	+ 98
1188	[51 Geminorum]	5.31	M 3	7 10 12.789	+3.4452	+ 6	+16 15 14.23	−6.091	− 43
275	[I Puppis]	4.47	F o	7 10 59.458	+1.7101	−142	−46 39 59.94	−6.013	+ 98
1190	[Grb 1281 Lynx]	5.55	G o	7 11 45.352	+4.4562	+ 36	+47 20 23.04	−6.360	− 184
276	[64 Aurigae]	5.75	A 3	7 14 12.907	+4.1720	− 16	+40 58 59.05	−6.369	+ 11
277	λ Geminorum	3.65	A 2	7 14 55.956	+3.4478	− 35	+16 38 28.58	−6.478	− 39
278	π Puppis	2.74	K 5	7 15 11.962	+2.1193	− 8	−36 59 51.19	−6.451	+ 9
279	δ Geminorum	3.52	F o	7 16 50.352	+3.5832	− 19	+22 5 7.19	−6.611	− 14
281	δ Volantis	4.02	F 5	7 16 51.804	−0.0288	− 12	−67 51 23.61	−6.598	− 2
280	19 Lyncis *sq*	5.61	B 8	7 18 23.181	+4.8960	− 8	+55 23 14.44	−6.760	− 35
1191	[66 Aurigae]	5.28	K o	7 20 20.142	+4.1550	− 5	+40 46 48.72	−6.914	− 29
283	[η Canis maj.]	2.43	B 5 p	7 21 55.106	+2.3732	− 5	−29 11 40.81	−7.009	+ 6
282	ι Geminorum	3.89	K o	7 22 18.743	+3.7265	− 92	+27 54 32.92	−7.136	− 89
1192	[169 G. Can. maj.]	5.82	F o	7 22 36.704	+2.7555	−142	−13 38 32.72	−7.082	− 11
285	β Canis minor.	3.09	B 8	7 24 10.087	+3.2535	− 38	+ 8 24 6.16	−7.238	− 40
284	Grb 1308 Caml	5.80	K o	7 25 10.457	+6.2443	− 22	+68 34 51.51	−7.322	− 40
286	ρ Geminorum	4.18	F o	7 25 34.548	+3.8589	+116	+31 53 44.22	−7.142	+ 172
1193	[6 Canis minor.]	4.85	K o	7 26 44.121	+3.3397	− 1	+12 7 18.99	−7.425	− 17
1194	[σ Puppis]	3.28	K 5	7 27 29.073	+1.9034	− 58	−43 11 20.75	−7.278	+ 190
287	*α Geminorum	1.99 2.85	A o A o	7 31 5.520	+3.8295	−138	+32 0 38.74	−7.864	− 103
288	[108 G. Puppis]	4.52	F 8	7 31 41.809	+2.5677	− 38	−22 10 34.30	−7.774	+ 35
1196	[υ Geminorum]	4.22	K 5	7 32 32.116	+3.6971	− 26	+27 1 10.93	−7.987	− 110
1195	[+46° 1286 Lynx]	5.80	K 5	7 32 32.356	+4.3561	− 29	+46 18 12.59	−7.916	− 39
1197	[125 G. Puppis]	5.66	B 3	7 34 15.944	+2.6372	− 4	−19 34 42.65	−8.012	+ 3
1198	[Q Carinae]	4.92	K 5	7 34 18.053	+1.4838	+ 15	−52 24 37.43	−8.038	− 21
289	25 Monocerotis	5.17	F 5	7 34 32.573	+2.9828	− 51	− 3 59 12.49	−8.022	+ 16
290	[127 G. Puppis]	4.62	B 8	7 35 19.890	+2.2196	− 27	−34 50 37.13	−8.082	+ 18
291	*α Canis min.	0.48	F 5	7 36 25.411	+3.1404	−474	+ 5 22 2.72	−9.218	−1030
292	24 Lyncis	4.96	A 2	7 38 21.821	+5.0771	− 53	+58 50 29.02	−8.397	− 54
293	[26 α Monocer.]	4.07	K o	7 38 37.134	+2.8666	− 51	− 9 25 17.58	−8.387	− 24
294	κ Geminorum	3.70	G 5	7 41 7.750	+3.6222	− 23	+24 31 53.72	−8.616	− 54

Nr. 287. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sterns beträgt nach den Elementen von Rabe, Astron. Nachr. Bd. 216, 1922:

1945.0 Δα = +0.s006 Δδ = +0."85
1946.0 = +0.002 = +0.78

Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Jones, Monthly Notices Bd. 88, 1928:

1945.0 Δα = −0.s001 Δδ = −1."20
1946.0 = −0.008 = −1.19

Mittlere Sternörter 1945.0

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
295	β Geminorum	1.21	K o	7 41 57.161	+3.6713	−475	+28 9 38.51	− 8.680	− 53
297	ζ Volantis	3.89	K o	7 42 30.641	−0.7363	+ 58	−72 28 27.34	− 8.651	+ 18
1200	[81 Geminorum]	5.02	K 2	7 42 56.459	+3.4739	− 54	+18 38 44.83	− 8.767	− 61
1199	[+37°1769 Lynx]	5.45	M o	7 42 59.261	+4.0032	+ 15	+37 39 8.40	− 8.702	+ 7
1201	[11 Canis minor.]	5.30	A o	7 43 14.582	+3.3027	− 22	+10 54 13.65	− 8.753	− 24
1202	[4 Puppis]	5.11	F o	7 43 24.857	+2.7627	− 10	−14 25 43.87	− 8.738	+ 4
296	π Geminorum	5.29	K 2	7 43 57.789	+3.8687	− 9	+33 33 8.78	− 8.817	− 31
1203	[187 G. Puppis]	5.26	B 2	7 45 51.719	+1.8127	− 13	−46 28 16.00	− 8.930	+ 4
1204	[ξ Puppis]	3.47	G o p	7 46 58.805	+2.5235	− 3	−24 43 14.10	− 9.025	− 3
1206	[61 G. Carinae]	5.82	F 2	7 48 18.392	+0.9907	− 95	−60 8 45.63	− 8.973	+151
1205	[ζ Canis minor.]	5.11	B 8	7 48 50.835	+3.1113	− 15	+ 1 54 31.12	− 9.172	− 5
1207	[φ Geminorum]	4.99	A 2	7 50 7.995	+3.6717	− 28	+26 54 35.20	− 9.302	− 35
301	[213 G. Puppis]	3.76	G 5	7 50 19.478	+2.0620	− 21	−40 25 58.74	− 9.281	o
299	[26 Lyncis]	5.69	K o	7 50 42.792	+4.3688	− 50	+47 42 32.97	− 9.315	− 2
300	Grb 1374 Caml	5.56	K o	7 53 39.148	+7.1864	− 30	+74 4 5.14	− 9.575	− 35
1208	[1 Cancri]	5.96	K o	7 53 52.142	+3.4063	− 23	+15 56 19.24	− 9.601	− 45
1209	[Grb 1384 Lynx]	6.47	K o	7 54 25.126	+4.2147	+ 38	+44 7 34.31	− 9.590	+ 8
303	χ Carinae	3.60	B 3	7 55 22.774	+1.5251	− 41	−52 50 2.25	− 9.642	+ 29
1210	[225 G. Puppis]	4.85	A 2	7 55 28.494	+2.3919	− 6	−30 11 7.92	− 9.672	+ 6
304	[27 Monocerotis]	5.06	K o	7 56 59.248	+2.9970	− 43	− 3 31 41.83	− 9.796	− 1
302	[53 Camelop.]	6.00	A 2 p	7 57 1.276	+5.1240	− 74	+60 28 37.36	− 9.820	− 22
1212	[232 G. Puppis]	4.64	A 2	7 57 24.082	+2.6885	− 6	−18 14 50.05	− 9.876	− 50
1211	[ω Cancri]	5.88	K o	7 57 36.322	+3.6302	+ 8	+25 32 41.76	− 9.842	o
1213	[161 G. Monocer.]	6.30	G o	7 59 43.818	+2.9484	+ 7	− 6 10 57.81	−10.031	− 28
305	χ Geminorum	5.04	K o	8 o 8.570	+3.6848	− 21	+27 57 0.46	−10.081	− 46
306	ζ Puppis	2.27	O d	8 1 38.987	+2.1085	− 30	−39 50 49.90	−10.134	+ 13
307	27 Lyncis	4.87	A 2	8 4 19.720	+4.5135	− 67	+51 40 1.70	−10.359	− 9
308	ρ Puppis	2.88	F 5	8 5 12.048	+2.5554	− 60	−24 8 40.34	−10.364	+ 51
1214	[Pi 7h 308 Lynx]	6.64	F 8	8 6 36.928	+3.9044	+164	+35 37 17.44	−10.758	−237
1215	[3 H. Ursae maj.]	5.48	G 5	8 7 21.901	+5.9744	− 4	+68 38 18.93	−10.571	+ 7
309	γ Velorum	2.22	O a p	8 7 50.207	+1.8492	− 8	−47 10 25.14	−10.605	+ 5
311	20 Puppis	5.05	G 5	8 10 48.229	+2.7576	− 12	−15 37 16.73	−10.836	− 6
310	Br 1147 Caml	5.73	G 5	8 12 41.149	+7.5403	+ 65	+75 55 40.87	−10.955	+ 15
312	β Cancri	3.76	K 2	8 13 32.005	+3.2536	− 34	+ 9 21 23.22	−11.081	− 51
1216	[+4° 1945 Hydra]	6.68	G o + A 2	8 14 24.829	+3.1587	+ 1	+ 4 23 24.43	−11.093	+ 1
313	[289 G. Puppis]	4.43	A 5	8 16 29.703	+2.2456	− 94	−36 29 16.45	−11.154	+ 91
1218	[7 G. Hydrae]	6.32	A 5	8 16 36.849	+2.8740	− 43	− 9 59 34.93	−11.225	+ 29
1217	[χ Cancri]	5.16	F 5	8 16 43.581	+3.6446	− 14	+27 23 50.15	−11.648	−386
314	31 Lyncis	4.43	K 5	8 19 4.616	+4.1082	− 16	+43 21 58.43	−11.536	−104
1219	[294 G. Puppis]	4.94	K o	8 19 12.966	+2.3626	− 13	−32 52 42.05	−11.433	+ 9

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
1220	[20 Cancri]	5.88	F 0	8 20 12.982	+3.4353	— 40	+18 30 36.89	—11.544	— 30
315	ε Carinae	1.74	K 0 + B	8 21 23.201	+1.2315	— 37	—59 19 54.85	—11.578	+ 18
318	ϑ Chamael.	4.26	K 0	8 22 19.861	—1.7914	—386	—77 18 27.80	—11.622	+ 39
1221	[302 G. Puppis *pr*]	5.55	K 5	8 22 41.178	+2.5908	— 22	—23 52 0.08	—11.663	+ 27
316	Br 1197 Hydra	3.95	A 0	8 22 54.731	+2.9979	— 46	— 3 43 32.72	—11.731	— 26
319	[β Volantis]	3.65	K 0	8 25 8.721	+0.6548	— 44	—65 57 10.74	—12.022	—160
1222	[29 Cancri]	5.90	A 2	8 25 33.266	+3.3479	— 13	+14 23 39.34	—11.909	— 16
317	o Ursae maj.	3.47	G 0	8 25 42.683	+4.9862	—185	+60 54 14.66	—12.016	—111
320	Grb 1450 Lynx	6.05	K 0	8 29 20.787	+3.9006	— 86	+38 12 23.73	—12.331	—173
321	η Cancri	5.52	K 0	8 29 31.807	+3.4694	— 35	+20 37 45.77	—12.220	— 49
322	[Grb 1446 Caml]	6.29	K 0	8 33 38.405	+6.6767	— 51	+73 49 28.44	—12.559	—104
1223	[δ Hydrae]	4.18	A 0	8 34 44.709	+3.1762	— 47	+ 5 53 48.34	—12.541	— 12
323	[Grb 1460 UMaj]	6.03	K 0	8 35 13.727	+4.4461	— 39	+52 54 21.70	—12.600	— 37
324	[48 G. Velorum]	4.13	A 5	8 35 42.492	+2.1091	— 17	—42 47 44.73	—12.588	+ 7
1224	[σ Hydrae]	4.54	K 0	8 35 52.991	+3.1361	— 13	+ 3 32 8.63	—12.629	— 21
1225	[34 Lyncis]	5.52	K 0	8 37 13.475	+4.1468	+ 21	+46 1 42.55	—12.614	+ 85
325	[6 Hydrae]	5.15	K 2	8 37 25.062	+2.8423	— 60	—12 16 47.46	—12.717	— 6
1227	o Velorum	3.68	B 3	8 38 43.038	+1.7197	— 22	—52 43 33.04	—12.777	+ 22
1226	[53 G. Velorum]	4.06	F 5 p	8 38 47.998	+1.9911	— 6	—46 27 7.87	—12.799	+ 4
1228	[γ Cancri]	4.73	A 0	8 40 6.342	+3.4720	— 76	+21 40 3.48	—12.936	— 44
327	α Pyxidis	3.70	B 2	8 41 22.838	+2.4109	— 13	—32 59 13.65	—12.967	+ 9
326	δ Cancri	4.17	K 0	8 41 33.695	+3.4094	— 14	+18 21 27.95	—13.223	—233
1229	[25 G. Pyxidis]	6.13	A 2	8 42 27.586	+2.6849	+ 4	—20 58 1.32	—13.024	+ 25
331	[η Chamael.]	5.62	B 9	8 43 14.816	—2.0268	— 78	—78 45 52.36	—13.077	+ 20
328	ι Cancri	4.20	G 5	8 43 22.364	+3.6307	— 19	+28 57 45.04	—13.154	— 45
1230	[14 Hydrae]	5.19	B 9	8 46 35.868	+3.0149	— 18	— 3 14 15.94	—13.345	— 23
332	[γ Pyxidis]	4.19	K 2	8 48 11.776	+2.5465	—101	—27 30 17.86	—13.344	+ 81
334	ζ Hydrae	3.30	K 0	8 52 29.231	+3.1714	— 69	+ 6 9 21.70	—13.692	+ 10
1231	[80 G. Hydrae]	5.90	K 0	8 52 40.754	+2.7583	+ 23	—18 1 50.74	—13.733	— 19
336	108 G. Carinae	3.98	B 8	8 53 48.150	+1.3607	— 25	—60 26 2.03	—13.743	+ 41
335	ι Ursae maj.	3.12	A 5	8 55 27.083	+4.1084	—443	+48 15 32.50	—14.131	—240
337	α Cancri	4.27	A 3	8 55 28.839	+3.2813	+ 22	+12 4 18.69	—13.925	— 34
1233	[109 G. Carinae]	5.29	B 3	8 55 37.670	+1.4680	— 20	—59 0 58.64	—13.889	+ 12
1232	[64 Cancri]	5.64	G 5	8 56 10.281	+3.6844	— 37	+32 38 0.77	—13.976	— 40
339	Br 1268 Lynx	4.09	F 5	8 57 4.598	+3.8951	—395	+42 0 6.85	—14.250	—257
338	ρ Ursae maj.	4.99	M 0	8 57 36.871	+5.4126	— 45	+67 50 45.29	—14.011	+ 16
1234	[91 G. Velorum]	4.42	F 8	8 58 2.100	+2.2397	— 40	—41 2 19.53	—14.012	+ 39
1235	[92 G. Hydrae]	5.80	K 0	8 59 9.381	+3.0650	— 37	— 0 15 59.60	—14.046	+ 76
341	κ Ursae maj.	3.68	A 0	8 59 52.771	+4.0967	— 35	+47 22 31.95	—14.225	— 58
340	[Grb 1501 UMaj]	5.68	A 2	8 59 59.339	+4.3963	— 14	+54 30 7.93	—14.175	— 1

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.''001
		m		h m s	s		° ' "	"	
1236	[93 G. Hydrae]	6.74	A 0	9 0 58.957	+2.9905	— 11	— 4 57 9.47	—14.230	+ 5
343	α Volantis	4.18	A 5	9 1 35.061	+0.9492	+ 11	—66 10 34.20	—14.372	—101
342	[97 G. Velorum]	3.69	K 0	9 2 15.316	+2.0686	— 57	—46 52 40.74	—14.327	— 15
1237	[Pi 8h245 Lynx]	4.71	G 5	9 3 2.221	+3.8165	— 27	+38 40 24.11	—14.383	— 22
1238	[κ Cancri]	5.14	B 8	9 4 46.159	+3.2494	— 17	+10 53 26.62	—14.476	— 10
345	λ Velorum	2.22	K 5	9 5 58.247	+2.2066	— 25	—43 12 34.72	—14.523	+ 15
1239	[ξ Cancri]	5.22	G 5	9 6 11.984	+3.4494	0	+22 16 8.70	—14.553	— 1
1240	[101 G. Hydrae]	5.81	K 0	9 6 33.203	+2.8767	+ 8	—12 8 2.54	—14.589	— 15
1241	[ε Pyxidis]	5.63	A 3	9 7 36.460	+2.5431	0	—30 8 23.59	—14.681	— 45
1242	[107 G. Hydrae]	5.81	K 0	9 9 27.514	+2.7484	— 39	—19 31 19.25	—14.712	+ 34
346	[36 Lyncis]	5.30	B 8	9 10 12.842	+3.9244	— 27	+43 26 45.01	—14.830	— 39
347	ϑ Hydrae	3.84	A 0	9 11 30.212	+3.1216	+ 86	+ 2 32 50.48	—15.181	—314
348	β Carinae	1.80	A 0	9 12 36.388	+0.6618	— 280	—69 29 25.39	—14.827	+103
351	[ι Carinae]	2.25	F 0	9 15 37.082	+1.6066	— 23	—59 2 38.11	—15.100	+ 5
350	83 Cancri	6.60	F 5	9 15 54.813	+3.3484	— 87	+17 56 22.52	—15.258	—135
352	α Lyncis	3.30	K 5	9 17 42.593	+3.6551	— 181	+34 37 34.70	—15.213	+ 13
1243	[ϑ Pyxidis]	4.93	M 0	9 19 3.397	+2.6565	— 7	—25 43 49.66	—15.312	— 10
353	κ Velorum	2.63	B 3	9 20 24.543	+1.8582	— 12	—54 46 30.31	—15.368	+ 10
1244	[κ Leonis]	4.61	K 0	9 21 27.307	+3.4941	— 25	+26 25 12.82	—15.486	— 49
1245	[28 Hydrae]	5.81	K 5	9 22 39.007	+2.9998	— 11	— 4 52 45.52	—15.517	— 14
354	α Hydrae	2.16	K 2	9 24 53.054	+2.9483	— 10	— 8 25 9.52	—15.599	+ 27
356	ε Antliae	4.64	K 2	9 26 58.368	+2.4763	— 22	—35 42 36.18	—15.749	— 10
355	23 Ursae maj.	3.75	F 0	9 27 12.884	+4.7313	+ 155	+63 18 13.79	—15.728	+ 25
1246	[ξ Leonis]	5.12	G 5	9 28 58.958	+3.2336	— 66	+11 32 39.71	—15.935	— 87
358	ϑ Ursae maj.	3.26	F 8 p	9 29 11.416	+4.0131	—1031	+51 55 45.14	—16.402	—543
361	[N Velorum]	3.4–4.2	K 5	9 29 32.950	+1.8232	— 42	—56 47 27.99	—15.876	+ 2
357	24 Ursae maj.	4.57	G 0	9 29 39.260	+5.3072	— 135	+70 4 25.52	—15.809	+ 75
1247	[160 G. Hydrae]	5.16	K 0	9 30 40.404	+2.7624	— 18	—20 52 17.15	—15.927	+ 11
360	10 Leonis min.	4.62	G 5	9 30 51.590	+3.6755	+ 4	+36 38 34.16	—15.978	— 29
362	[H Carinae]	5.52	K 2	9 31 12.460	+0.4540	— 32	—72 50 12.66	—15.973	— 8
1248	[17 G. Antliae]	5.63	K 0	9 34 47.716	+2.5829	+ 27	—31 55 50.29	—16.178	— 24
1249	[Br 1352 Hydrae]	4.78	K 0	9 35 35.210	+3.1298	— 108	+ 4 53 54.95	—16.250	— 55
1250	[ι Hydrae]	4.10	K 0	9 37 2.832	+3.0641	+ 31	— 0 53 32.05	—16.339	— 69
363	[Grb 1564 UMaj]	5.74	K 0	9 37 34.360	+5.1380	— 141	+69 29 21.60	—16.371	— 74
364	[κ Hydrae]	4.96	B 3	9 37 40.093	+2.8762	— 20	—14 4 54.95	—16.325	— 24
365	[o Leonis]	3.76	F 5 + A 3	9 38 12.997	+3.2020	— 98	+10 8 36.58	—16.368	— 39
1251	[15 Leonis]	5.73	A 2	9 40 20.062	+3.5169	— 18	+30 13 41.69	—16.546	—109
1252	[ψ Leonis]	5.62	M 0	9 40 44.290	+3.2671	— 1	+14 16 27.54	—16.460	— 4
366	ϑ Antliae	4.98	F 5 p	9 41 44.865	+2.6745	— 38	—27 31 0.87	—16.476	+ 30
367	ε Leonis	3.12	G 0 p	9 42 43.965	+3.4055	— 35	+24 1 42.41	—16.572	— 17

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
1253	[+19° 2254 Leo]	6.92	K 0	9 42 48.781	+3.3330	+ 16	+18 56 16.26	−16.579	− 19
1254	[l Carinae]	3.6–4.8	G 0	9 43 44.129	+1.6485	− 18	−62 15 12.86	−16.591	+ 13
1255	[Br 1369 U Maj]	5.20	G 0	9 45 3.086	+3.8705	+215	+46 16 41.96	−16.766	− 97
368	υ Ursae maj.	3.89	F 0	9 47 5.748	+4.2673	−386	+59 17 54.98	−16.924	−157
370	6 Sextantis	6.00	A 2	9 48 27.704	+3.0231	+ 5	− 3 59 5.18	−16.865	− 33
1256	[162 G. Velorum]	5.72	K 0	9 49 11.855	+2.3245	− 29	−45 56 9.04	−16.832	+ 35
371	[μ Leonis]	4.10	K 0	9 49 38.367	+3.4121	−162	+26 16 0.84	−16.948	− 60
373	[183 G. Hydrae]	5.16	M 0	9 52 16.464	+2.8302	− 31	−18 44 53.06	−17.058	− 47
1257	[18 G. Sextantis]	7.03	K 0	9 53 23.976	+2.9803	− 20	− 7 23 1.75	−17.070	− 6
372	Grb 1586 UMaj	5.96	K 0	9 53 30.663	+5.3659	−183	+73 8 32.63	−17.111	− 43
374	[19 Leonis min.]	5.19	F 5	9 54 19.384	+3.6747	−107	+41 19 6.54	−17.135	− 30
·375	φ Velorum	3.70	B 5	9 54 55.696	+2.1062	− 16	−54 18 18.83	−17.122	+ 11
377	[η Antliae]	5.25	F 0	9 56 30.471	+2.5738	− 81	−35 37 37.42	−17.229	− 25
376	[12 Sextantis]	6.63	A 5	9 56 51.907	+3.1118	− 49	+ 3 38 54.52	−17.202	+ 18
378	π Leonis	4.89	M 0	9 57 18.480	+3.1704	− 23	+ 8 18 32.07	−17.266	− 27
1258	[20 Leonis min.]	5.60	G 5	9 57 50.724	+3.4592	−414	+32 11 42.18	−17.698	−434
1259	[Pi 9ʰ 229 UMaj]	5.74	F 5	10 0 57.802	+3.9883	− 28	+54 9 31.45	−17.411	− 10
1260	[193 G. Hydrae]	5.80	F 0	10 1 48.454	+2.7725	− 71	−24 1 7.08	−17.417	+ 20
1261	[υ² Hydrae]	4.72	B 8	10 2 26.696	+2.9216	− 26	−12 47 50.28	−17.457	+ 8
379	η Leonis	3.58	A 0p	10 4 20.170	+3.2707	− 4	+17 1 53.91	−17.551	− 6
380	α Leonis	1.34	B 8	10 5 26.679	+3.1951	−169	+12 14 12.45	−17.589	+ 3
381	λ Hydrae	3.83	K 0	10 7 54.329	+2.9251	−138	−12 4 53.50	−17.787	− 93
382	191 G. Velorum	4.09	A 2	10 12 25.391	+2.5183	−136	−41 50 55.86	−17.836	+ 40
385	[ω Carinae]	3.56	B 8	10 12 25.979	+1.4291	− 45	−69 45 51.99	−17.874	+ 2
384	ζ Leonis	3.65	F 0	10 13 38.066	+3.3367	+ 11	+23 41 31.63	−17.936	− 12
383	λ Ursae maj.	3.52	A 2	10 13 47.258	+3.6185	−152	+43 11 23.34	−17.974	− 45
1262	[32 Ursae maj.]	5.74	A 3	10 14 3.840	+4.3587	−144	+65 23 1.32	−17.954	− 13
1263	[ε Sextantis]	5.40	F 0	10 14 53.753	+2.9813	−109	− 7 47 36.78	−17.972	+ 1
1264	[187 G. Carinae]	3.44	K 5	10 15 14.574	+2.0036	− 32	−61 3 25.00	−17.981	+ 5
1265	[59 G. Antliae]	5.62	B 9	10 15 36.141	+2.7498	− 14	−28 42 58.95	−17.990	+ 10
1266	[23 Sextantis]	6.53	B 3	10 18 11.594	+3.0981	− 8	+ 2 34 1.44	−18.103	− 4
386	μ Ursae maj.	3.21	K 5	10 19 3.597	+3.5745	− 75	+41 46 36.76	−18.102	+ 29
1267	[27 Leonis min.]	5.83	A 3	10 19 56.591	+3.4559	− 10	+34 11 11.42	−18.178	− 14
1268	[204 G. Velorum	4.99	K 5	10 19 57.785	+2.5729	− 28	−41 22 21.55	−18.112	+ 52
387	30 H. Ursae maj.	4.92	A 0	10 20 11.365	+4.3273	− 24	+65 50 43.49	−18.198	− 25
388	[25 Sextantis]	6.10	B 9	10 20 39.632	+3.0322	− 37	− 3 47 43.51	−18.190	0
1269	[64 G. Antliae]	5.40	A 3	10 21 4.560	+2.6271	−136	−37 43 48.25	−18.260	− 54
391	I Carinae	4.08	F 5	10 23 18.582	+1.1927	− 30	−73 45 5.02	−18.312	− 26
389	μ Hydrae	4.06	K 5	10 23 25.708	+2.9019	− 89	−16 33 17.69	−18.374	− 83
392	α Antliae	4.42	K 5	10 24 37.919	+2.7457	− 57	−30 47 13.32	−18.318	+ 15

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		m		h m s	s		° ′ ″	″	
390	β Leonis min.	4.41	K 0	10 24 42.533	+3.4694	−102	+36 59 22.95	−18.445	−109
393	196 G. Carinae	4.08	F 0	10 25 51.292	+2.2019	− 20	−58 27 29.16	−18.381	− 5
1270	[δ Sextantis]	5.24	B 9	10 26 41.062	+3.0470	− 35	− 2 27 25.10	−18.424	− 19
1271	[+29°2057 LMin]	6.92	K 0	10 26 48.891	+3.3650	+ 7	+28 51 47.64	−18.418	− 8
394	36 Ursae maj.	4.84	F 5	10 27 7.228	+3.8399	−218	+56 15 48.01	−18.456	− 35
1272	[46 Leonis]	5.74	M 0	10 29 15.713	+3.2027	− 29	+14 25 12.28	−18.477	+ 16
396	[ρ Leonis]	3.85	B 0p	10 29 54.969	+3.1590	− 6	+ 9 35 24.82	−18.521	− 6
397	[203 G. Carinae]	3.58	B 5p	10 30 3.808	+2.1333	− 27	−61 24 6.90	−18.511	+ 9
395	9 H. Draconis	5.04	G 5	10 30 28.517	+5.1025	− 96	+75 59 49.93	−18.543	− 9
1273	219 G. Velorum	5.14	K 0	10 30 37.433	+2.5344	+ 6	−46 43 10.44	−18.539	− 1
399	[44 Hydrae]	5.32	K 2	10 31 23.749	+2.8538	− 7	−23 27 40.21	−18.546	+ 18
398	[37 Ursae maj.]	5.16	F 0	10 31 38.002	+3.8654	+ 78	+57 21 59.84	−18.538	+ 34
1274	[236 G. Hydrae]	5.85	F 8	10 33 47.929	+2.9870	+175	−11 56 3.77	−19.323	−680
401	[γ Chamaeleon.]	4.10	M 0	10 34 50.088	+0.7129	−125	−78 19 20.20	−18.655	+ 20
1275	[37 Leonis min.]	4.77	G 0	10 35 37.796	+3.3768	+ 2	+32 15 44.97	−18.700	+ 1
402	[225 G. Velorum]	4.37	G 0	10 37 6.730	+2.3880	− 21	−55 18 58.96	−18.749	− 2
404	33 Sextantis	6.40	K 0	10 38 36.267	+3.0520	− 94	− 1 27 6.89	−18.918	−125
403	[35 H. Ursae maj.]	5.23	K 0	10 39 9.531	+4.2975	− 8	+69 21 52.49	−18.827	− 17
1277	[78 G. Antliae]	5.73	A 0	10 40 9.998	+2.7812	− 23	−32 25 37.92	−18.838	+ 1
1276	[Pi 10ʰ135 U Maj]	5.28	F 0	10 40 19.481	+3.5265	−260	+46 29 36.46	−18.918	− 74
405	[41 Leonis min.]	5.05	A 2	10 40 25.708	+3.2621	− 85	+23 28 36.79	−18.842	+ 5
406	ϑ Carinae	3.03	B 0	10 40 59.371	+2.1407	− 24	−64 6 20.83	−18.852	+ 12
407	42 Leonis min.	5.37	B 9	10 42 48.653	+3.3360	− 21	+30 58 21.12	−18.958	− 41
1278	[Br 1493 Leo]	6.29	K 0	10 43 13.878	+3.1237	− 8	+ 6 39 48.75	−18.970	− 40
1279	[51 Leonis]	5.64	K 0	10 43 26.874	+3.2319	+ 64	+19 10 55.18	−18.981	− 45
1280	[250 G. Hydrae]	6.86	K 0	10 44 5.744	+2.8514	−121	−25 45 31.59	−18.905	+ 49
411	[δ² Chamaeleon.]	4.62	B 3	10 45 17.420	+0.5671	−153	−80 15 0.07	−18.986	+ 2
409	53 Leonis	5.27	A 0	10 46 22.028	+3.1535	− 4	+10 50 12.25	−19.046	− 28
410	[ν Hydrae]	3.32	K 0	10 46 54.542	+2.9605	+ 67	−15 54 19.34	−18.838	+195
1281	[41 Sextantis]	5.78	A 2	10 47 32.409	+3.0098	− 5	− 8 36 21.40	−19.072	− 21
412	[46 Leonis min.]	3.92	K 0	10 50 14.458	+3.3554	+ 69	+34 30 42.60	−19.407	−285
414	[ι Antliae]	4.70	K 0	10 54 8.999	+2.7962	+ 67	−36 50 30.01	−19.354	−132
413	[Br 1508 Draco]	6.26	G 5	10 55 36.796	+4.7999	−246	+78 3 55.30	−19.289	− 31
1282	[47 Ursae maj.]	5.14	G 0	10 56 23.551	+3.3601	−281	+40 43 27.82	−19.227	+ 49
1283	[α Crateris]	4.20	K 0	10 57 5.529	+2.9232	−323	−18 0 19.84	−19.170	+123
415	239 G. Velorum	4.56	A 2	10 57 37.495	+2.7523	+ 17	−41 55 49.92	−19.309	− 4
1284	[58 Leonis]	5.05	K 0	10 57 43.206	+3.0985	+ 8	+ 3 54 47.63	−19.326	− 18
416	β Ursae maj.	2.44	A 0	10 58 32.139	+3.6212	+ 97	+56 40 39.57	−19.300	+ 27
1285	[29 G. Leonis]	7.13	G 5	10 59 48.857	+3.0523	− 14	− 3 12 58.59	−19.386	− 30
417	α Ursae maj.	1.95	K 0	11 0 21.023	+3.7035	−174	+62 2 54.01	−19.440	− 71

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		m		h m s	s		° ′ ″	″	
418	χ Leonis	4.66	F 0	11 2 10.822	+3.0947	−231	+ 7 38 1.46	−19.458	− 49
419	[χ¹ Hydrae]	5.06	F 5	11 2 40.690	+2.8905	−143	−26 59 46.67	−19.424	− 4
1286	[11 G. Crateris]	6.14	A 3	11 2 48.253	+3.0113	+ 10	−10 47 26.70	−19.528	−105
1287	[65 Leonis]	5.66	G 5	11 4 5.868	+3.0603	−255	+ 2 15 15.96	−19.540	− 90
1288	[259 G. Carinae]	5.80	B 3	11 4 50.326	+2.1659	− 39	−70 34 48.32	−19.467	− 2
1289	[260 G. Carinae]	4.02	F 8p	11 6 13.944	+2.5622	− 8	−58 40 36.20	−19.495	− 1
420	ψ Ursae maj.	3.15	K 0	11 6 34.726	+3.3733	− 62	+44 47 50.35	−19.532	− 31
421	β Crateris	4.52	A 2	11 8 56.980	+2.9512	+ 3	−22 31 30.78	−19.651	−103
1290	[275 G. Hydrae]	6.46	M 0	11 9 35.479	+2.8915	+ 14	−32 8 5.07	−19.556	+ 4
1291	[9 G. Centauri]	5.67	A 2	11 10 2.310	+2.7334	− 98	−48 48 7.03	−19.528	+ 41
422	δ Leonis	2.58	A 3	11 11 11.135	+3.1908	+102	+20 49 31.27	−19.726	−136
423	ϑ Leonis	3.41	A 0	11 11 21.322	+3.1481	− 43	+15 43 49.80	−19.676	− 82
424	[Grb 1757 U Maj]	5.97	K 0	11 13 36.382	+3.3812	− 94	+49 46 36.28	−19.649	− 15
1292	[φ Leonis]	4.58	A 5	11 13 51.851	+3.0501	− 75	− 3 21 2.41	−19.681	− 43
425	ν Ursae maj.	3.71	K 0	11 15 30.741	+3.2407	− 23	+33 23 40.82	−19.645	+ 22
1293	[55 Ursae maj.]	4.78	A 2	11 16 8.375	+3.2702	− 49	+38 29 15.03	−19.754	− 77
426	δ Crateris	3.82	K 0	11 16 35.299	+2.9997	− 85	−14 28 50.33	−19.485	+200
427	σ Leonis	4.13	A 0	11 18 18.020	+3.0936	− 64	+ 6 19 51.80	−19.726	− 13
428	π Centauri	4.26	B 5	11 18 29.473	+2.7367	− 31	−54 11 21.49	−19.719	− 4
429	Grb 1771 U Maj	5.98	A 0	11 19 36.246	+3.5658	− 13	+64 37 54.22	−19.704	+ 29
1294	[28 G. Centauri]	6.42	B 3	11 21 43.765	+2.8693	− 15	−42 22 0.68	−19.775	− 10
431	[γ Crateris]	4.14	A 5	11 22 7.867	+2.9975	− 69	−17 22 54.13	−19.772	− 2
1295	[Pi 11ʰ 63 Leo]	7.15	A 2	11 22 50.999	+3.1809	− 23	+27 2 59.00	−19.778	+ 3
1296	[83 Leonis]	6.54	K 0	11 23 58.267	+3.0371	−482	+ 3 18 47.09	−19.619	+177
1297	[τ Leonis]	5.18	K 0	11 25 6.503	+3.0856	+ 12	+ 3 9 33.65	−19.828	− 17
1298	[282 G. Hydrae]	6.79	K 0	11 26 53.844	+2.9710	− 12	−27 43 38.22	−19.841	− 7
432	[58 Ursae maj.]	5.88	F 8	11 27 32.910	+3.2466	− 53	+43 28 31.16	−19.767	+ 76
433	λ Draconis	4.06	M 0	11 28 9.721	+3.5632	− 78	+69 38 5.47	−19.870	− 20
434	ξ Hydrae	3.72	G 5	11 30 17.510	+2.9512	−161	−31 33 10.81	−19.913	− 38
436	λ Centauri	3.34	B 9	11 33 13.992	+2.7663	− 53	−62 42 54.89	−19.912	− 5
435	[C² Centauri]	5.42	F 0	11 33 15.135	+2.9073	+ 28	−47 20 11.26	−19.958	− 51
1299	[ϑ Crateris]	4.81	B 9	11 33 53.364	+3.0435	− 43	− 9 29 52.42	−19.909	+ 4
437	υ Leonis	4.47	K 0	11 34 7.895	+3.0720	+ 2	− 0 31 11.74	−19.877	+ 39
438	[π Chamaeleon.]	5.74	F 0	11 34 58.681	+2.4751	−318	−75 35 30.25	−19.916	+ 7
439	[ο Hydrae]	4.88	B 8	11 37 28.558	+2.9804	− 30	−34 26 22.52	−19.943	+ 3
1300	[61 Ursae maj.]	5.46	G 5	11 38 9.476	+3.1593	− 12	+34 30 44.55	−20.342	−390
440	3 Draconis	5.48	K 0	11 39 25.329	+3.3475	− 83	+67 2 57.87	−19.928	+ 34
1301	[ζ Crateris]	4.90	G 5	11 41 58.304	+3.0414	+ 24	−18 2 41.52	−20.018	− 37
442	[λ Muscae]	3.80	A 5	11 42 59.903	+2.8318	−148	−66 25 25.40	−19.958	+ 30
1302	[ν Virginis]	4.20	M 0	11 43 1.929	+3.0838	− 12	+ 6 50 15.61	−20.175	−187

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		m		h m s	s		° ' ''	''	
441	χ Ursae maj.	3.85	K 0	11 43 9.188	+3.1685	− 138	+48 5 3.97	−19.966	+ 23
443	[65 G. Centauri]	4.22	G 0	11 43 50.418	+2.9004	− 42	−60 52 20.84	−20.012	− 19
1303	[Grb 1826 UMaj]	6.64	F 0	11 44 10.479	+3.2390	− 52	+61 42 28.90	−20.040	− 44
1304	[93 Leonis]	4.54	F 8	11 45 8.987	+3.0947	− 108	+20 31 28.62	−20.012	− 11
1305	[298 G. Hydrae]	5.45	M 3	11 45 58.152	+3.0306	− 20	−26 26 37.70	−20.017	− 11
444	β Leonis	2.23	A 2	11 46 15.308	+3.0602	− 343	+14 52 46.38	−20.126	− 119
445	β Virginis	3.80	F 8	11 47 49.760	+3.1251	+ 494	+ 2 4 29.02	−20.289	− 275
1306	[12 G. Virginis]	5.81	K 0	11 48 13.418	+3.0675	+ 3	− 5 1 38.78	−20.022	− 5
446	[B Centauri]	4.71	K 0	11 48 23.158	+2.9972	− 88	−44 52 3.17	−20.046	− 29
1307	[Grb 1830 UMaj]	6.46	G 5	11 49 48.865	+3.4582	+3386	+38 6 48.35	−25.828	−5804
447	γ Ursae maj.	2.54	A 0	11 50 56.780	+3.1561	+ 104	+54 0 2.08	−20.021	+ 6
1308	[95 Leonis]	5.49	A 2	11 52 50.861	+3.0857	+ 7	+15 57 10.23	−20.037	− 3
1309	[η Crateris]	5.16	A 0	11 53 12.543	+3.0575	− 37	−16 50 40.43	−20.045	− 11
1310	[Pi 11h 202 UMaj]	6.30	F 0	11 55 17.864	+3.0822	− 84	+32 34 51.42	−20.107	− 69
1311	[π Virginis]	4.57	A 3	11 58 3.242	+3.0744	− 2	+ 6 55 15.56	−20.075	− 33
449	[88 G. Centauri]	5.28	F 0	12 0 48.163	+3.1068	+ 292	−42 7 33.82	−20.162	− 120
450	ο Virginis	4.24	G 5	12 2 24.428	+3.0561	− 149	+ 9 2 18.42	−19.997	+ 45
451	[Grb 1852 Caml]	5.96	K 0	12 2 28.992	+3.0526	+ 438	+77 12 47.38	−20.141	− 100
1312	[311 G. Hydrae]	6.26	B 9	12 3 6.588	+3.0819	− 42	−35 23 15.30	−20.037	+ 5
452	δ Centauri	2.88	B 3p	12 5 29.896	+3.1089	− 33	−50 24 57.95	−20.047	− 10
453	ε Corvi	3.21	K 0	12 7 17.494	+3.0858	− 49	−22 18 50.07	−20.023	+ 10
1313	[3 Comae]	6.34	A 0	12 7 43.452	+3.0578	− 14	+17 6 54.64	−20.038	− 6
454	Br 1634 Caml	5.12	A 5	12 9 38.752	+2.8120	+ 22	+77 55 18.29	−20.006	+ 19
1314	[Br 1636 U Maj]	6.26	K 0	12 12 0.219	+2.9751	− 25	+53 44 25.99	−20.035	− 19
455	[δ Crucis]	3.08	B 3	12 12 12.688	+3.1850	− 44	−58 26 34.47	−20.020	− 6
456	δ Ursae maj.	3.44	A 2	12 12 42.725	+2.9700	+ 125	+57 20 16.96	−20.009	+ 3
457	[γ Corvi]	2.78	B 8	12 12 58.418	+3.0856	− 111	−17 14 11.99	−19.994	+ 16
458	[2 Canum venat.]	5.92	K 5	12 13 22.438	+3.0068	+ 14	+40 57 58.24	−20.048	− 39
459	β Chamaeleontis	4.38	B 5	12 15 4.594	+3.5131	− 133	−79 0 24.80	−19.983	+ 16
1315	[14 Virginis]	7.03	K 0	12 16 30.169	+3.0878	0	− 8 36 32.45	−20.018	− 27
460	η Virginis	4.00	A 0	12 17 5.414	+3.0696	− 42	− 0 21 40.62	−20.009	− 22
1316	[3 Canum venat.]	5.56	K 2	12 17 6.519	+2.9562	− 10	+49 17 21.31	−19.984	+ 3
1317	[16 Virginis]	5.10	K 0	12 17 33.299	+3.0471	− 197	+ 3 37 7.29	−20.054	− 70
1318	[12 Comae]	4.78	F 5	12 19 44.537	+3.0158	− 9	+26 9 4.26	−19.982	− 13
1319	[322 G. Hydrae]	6.34	K 0	12 22 25.283	+3.1414	+ 3	−27 26 40.43	−19.967	− 20
461	[6 Canum venat.]	5.22	K 0	12 23 8.571	+2.9558	− 70	+39 19 24.62	−19.980	− 40
462	α Crucis *m*	1.58 2.09	B 1 B 1	12 23 31.670	+3.3361	− 39	−62 47 40.69	−19.949	− 12
463	[323 G. Hydrae]	5.68	A 0	12 23 57.372	+3.1616	− 6	−32 31 31.00	−19.963	− 30
464	[σ Centauri]	4.16	B 3	12 25 3.308	+3.2442	− 25	−49 55 34.35	−19.944	− 21
1320	[122 G. Centauri]	5.60	B 8	12 25 26.493	+3.1896	− 25	−38 44 12.51	−19.940	− 20

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0s.0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
466	20 Comae	5.72	A 2	12 26 57.504	+3.0141	+ 17	+21 12 1.71	—19.938	— 34
465	δ Corvi	3.11	A 0	12 27 0.862	+3.1044	—146	—16 12 33.95	—20.047	—143
467	[74 Ursae maj.]	5.44	A 5	12 27 23.624	+2.8022	— 87	+58 42 29.34	—19.812	+ 88
468	[γ Crucis]	1.61	M 3	12 28 6.094	+3.3272	+ 39	—56 48 19.32	—20.156	—264
469	[γ Muscae]	4.04	B 5	12 29 9.314	+3.5811	— 92	—71 49 45.58	—19.887	— 6
1321	[35 G. Corvi]	5.76	G 5	12 30 42.865	+3.1112	— 17	—12 31 39.89	—19.813	+ 50
1322	[Pi 12h 122 C Ven]	5.43	K 0	12 30 56.492	+2.9550	+ 12	+33 33 4.29	—19.899	— 39
470	β Canum venat.	4.32	G 0	12 31 8.048	+2.8490	—631	+41 39 21.96	—19.571	+287
472	κ Draconis	3.88	B 5 p	12 31 8.740	+2.5614	—117	+70 5 28.20	—19.850	+ 8
471	β Corvi	2.84	G 5	12 31 29.589	+3.1517	+ 4	—23 5 34.06	—19.911	— 57
1323	[23 Comae]	4.78	A 0	12 32 6.679	+2.9891	— 51	+22 55 54.52	—19.831	+ 15
473	24 Comae *sq*	5.18	K 0	12 32 22.264	+3.0092	— 4	+18 40 46.53	—19.823	+ 20
474	α Muscae	2.94	B 3	12 33 52.840	+3.5757	— 65	—68 49 57.50	—19.836	— 13
1324	[25 Virginis]	5.90	A 0	12 33 57.204	+3.0901	— 22	— 5 31 44.31	—19.843	— 20
475	[χ Virginis]	4.78	K 0	12 36 24.266	+3.0966	— 52	— 7 41 35.49	—19.823	— 33
1325	133 G. Centauri	5.84	K 0	12 38 21.023	+3.2949	— 77	—45 50 41.22	—19.709	+ 54
1326	[ρ Virginis]	4.95	A 0	12 39 5.998	+3.0367	+ 57	+10 32 18.35	—19.846	— 94
478	76 Ursae maj.	5.92	A 0	12 39 10.135	+2.6212	— 56	+63 0 52.89	—19.772	— 22
479	[330 G. Hydrae]	5.73	K 2	12 41 4.229	+3.1973	— 27	—28 1 20.39	—19.760	— 38
1327	[Y Canum ven.]	4.8-6.0	N 3	12 42 33.001	+2.8200	+ 1	+45 44 26.22	—19.689	+ 10
1328	[32 d² Virginis]	5.24	A 5	12 42 50.269	+3.0311	— 73	+ 7 58 25.65	—19.692	+ 2
481	β Crucis	1.50	B 1	12 44 29.516	+3.5046	— 47	—59 23 17.93	—19.679	— 14
1329	[332 G. Hydrae]	6.29	B 9	12 44 57.886	+3.1892	— 31	—24 33 8.24	—19.624	+ 34
1330	[35 Virginis]	6.66	M 0	12 45 3.278	+3.0550	— 5	+ 3 52 21.77	—19.662	— 5
1331	[143 G. Centauri]	5.01	A 0	12 47 41.661	+3.2549	— 25	—33 41 59.07	—19.633	— 23
1332	[31 Comae]	5.07	G 0	12 49 1.247	+2.9222	— 12	+27 50 22.62	—19.601	— 16
1333	[32 Comae]	6.53	K 5	12 49 28.112	+2.9830	— 6	+17 22 21.59	—19.594	— 17
482	150 G. Centauri	4.34	A 5	12 50 22.903	+3.3226	+ 58	—39 52 48.25	—19.585	— 25
1334	[52 G. Corvi]	6.84	A 0	12 51 5.880	+3.1651	— 26	—17 44 22.07	—19.548	— 2
1335	[ψ Virginis]	4.91	M 3	12 51 29.352	+3.1200	— 17	— 9 14 26.20	—19.559	— 20
483	ε Ursae maj.	1.68	A 0p	12 51 36.899	+2.6398	+134	+56 15 28.99	—19.545	— 9
484	δ Virginis	3.66	M 0	12 52 49.875	+3.0221	—314	+ 3 41 45.43	—19.570	— 57
486	8 Draconis	5.27	F 0	12 53 17.503	+2.3885	— 15	+65 44 11.24	—19.539	— 36
485	α Canum ven. *sq*	2.90	A 0p	12 53 27.451	+2.8063	—201	+38 36 53.97	—19.449	+ 50
1336	[44 Virginis]	5.88	A 0	12 56 49.349	+3.0908	— 26	— 3 30 56.24	—19.424	+ 5
487	[δ Muscae]	3.63	K 2	12 58 27.388	+4.1244	+571	—71 15 9.99	—19.424	— 31
488	ε Virginis	2.95	K 0	12 59 26.282	+2.9864	—186	+11 15 15.70	—19.353	+ 19
1337	[14 Canum ven.]	5.11	B 9	13 3 10.254	+2.8054	— 26	+36 5 33.87	—19.270	+ 16
1338	[Grb 1956 C Ven]	5.72	K 0	13 3 23.954	+2.6991	— 18	+45 33 44.11	—19.255	+ 25
1339	[39 Comae]	6.04	F 5	13 3 40.369	+2.9236	— 55	+21 26 53.27	—19.320	— 46

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
489	[ξ² Centauri]	4.40	B 3	13 3 41.222	+3.5012	— 32	—49 36 43.38	—19.284	— 11
1340	[177 G. Centauri]	5.96	B 9	13 4 21.368	+3.5637	— 41	—53 9 56.89	—19.290	— 32
490	ϑ Virginis	4.46	A 0	13 7 5.940	+3.1063	— 23	— 5 14 44.93	—19.224	— 35
491	[17 Canum ven.]	6.05	F 0	13 7 31.783	+2.7548	— 64	+38 47 26.74	—19.140	+ 38
1341	[342 G. Hydrae]	6.48	A 3	13 8 39.397	+3.2638	— 41	—26 15 35.30	—19.156	— 6
492	β Comae	4.32	G 0	13 9 18.452	+2.7997	—604	+28 9 23.16	—18.256	+ 877
493	[η Muscae]	4.95	B 8	13 11 29.655	+4.0634	— 57	—67 36 13.32	—19.091	— 16
1342	[195 G. Centauri]	5.36	K 0	13 13 49.412	+3.3327	+ 30	—31 12 56.08	—19.063	— 52
1343	[196 G. Centauri]	5.87	A 3 p	13 14 1.883	+3.4775	— 10	—43 41 22.40	—19.019	— 13
1344	[σ Virginis]	5.01	M 0	13 14 49.537	+3.0295	— 5	+ 5 45 32.90	—18.971	+ 13
494	[20 Canum ven.]	4.66	F 0	13 15 4.709	+2.6902	—110	+40 51 42.08	—18.959	+ 18
1345	[61 Virginis]	4.80	G 5	13 15 31.353	+3.1383	—755	—18 0 21.31	—20.037	—1073
495	γ Hydrae	3.33	G 5	13 15 55.579	+3.2621	+ 53	—22 52 54.94	—19.001	— 49
496	ι Centauri	2.91	A 2	13 17 29.813	+3.3723	—281	—36 25 21.78	—18.994	— 87
1346	[23 Canum ven.]	5.69	K 0	13 17 51.187	+2.6884	— 53	+40 26 19.26	—18.907	— 10
1347	[J Centauri]	4.62	B 5	13 19 3.579	+3.8749	— 39	—60 42 1.88	—18.871	— 10
497	ζ Ursae maj. *pr*	2.40	A 2 p	13 21 42.840	+2.4158	+140	+55 12 43.55	—18.807	— 25
498	α Virginis	1.21	B 2	13 22 17.505	+3.1608	— 26	—10 52 29.42	—18.797	— 33
1348	[68 Virginis]	5.59	K 2	13 23 48.555	+3.1692	— 93	—12 25 19.47	—18.741	— 24
499	Grb 2001 UMin	6.07	K 5	13 24 43.712	+1.5292	+ 39	+72 40 36.25	—18.702	— 13
1349	[70 Virginis]	5.16	G 0	13 25 44.330	+2.9343	—164	+14 4 18.98	—19.236	— 580
1350	[+31°2493 CVen]	7.12	K 2	13 25 46.180	+2.7748	+ 2	+31 26 0.99	—18.657	— 2
500	69 H. Ursae maj.	5.41	A 0	13 26 26.104	+2.2019	—110	+60 13 45.74	—18.601	+ 33
1351	[78 Virginis]	4.93	A 2 p	13 31 20.559	+3.0403	+ 28	+ 3 56 26.80	—18.500	— 29
501	ζ Virginis	3.44	A 2	13 31 53.275	+3.0571	—190	— 0 18 55.49	—18.417	+ 36
502	17 H. Can. ven.	4.96	F 0	13 32 20.523	+2.6785	+ 68	+37 27 48.98	—18.449	— 12
1352	[80 Virginis]	5.75	K 0	13 32 39.404	+3.1212	+ 10	— 5 7 0.51	—18.353	+ 73
1353	[Grb 2017 C Ven]	6.63	A 5	13 32 53.690	+2.5536	— 21	+44 28 39.35	—18.406	+ 12
503	[49 G. Chamael.]	6.44	A 0	13 34 26.336	+5.1260	— 35	—75 24 15.43	—18.378	— 15
505	[Grb 2029 UMin]	5.67	K 0	13 35 51.439	+1.4402	— 89	+71 31 18.42	—18.320	— 6
504	ε Centauri	2.56	B 1	13 36 23.319	+3.8003	— 22	—53 11 14.61	—18.309	— 14
1354	[355 G. Hydrae]	6.42	A 0	13 38 28.376	+3.3109	— 7	—23 10 20.03	—18.218	+ 2
1355	[82 Virginis]	5.16	M 0	13 38 43.297	+3.1492	— 67	— 8 25 34.33	—18.177	+ 35
1356	[253 G. Centauri]	6.30	B 2	13 39 19.314	+3.9186	— 24	—56 29 27.49	—18.199	— 10
1357	[83 Virginis]	5.71	G 0	13 41 31.468	+3.2373	+ 9	—15 54 11.60	—18.119	— 12
506	[1 Centauri]	4.36	F 5	13 42 33.271	+3.4092	—363	—32 45 58.75	—18.218	— 150
1358	[3 Bootis]	5.91	F 5	13 44 10.070	+2.7857	— 16	+25 58 38.89	—18.072	— 64
507	τ Bootis	4.51	F 5	13 44 38.853	+2.8510	—338	+17 43 48.60	—17.955	+ 34
509	η Ursae maj.	1.91	B 3	13 45 22.490	+2.3642	—126	+49 35 14.00	—17.975	— 14
508	[μ Centauri]	3.32	B 2 p	13 46 17.581	+3.6135	— 19	—42 12 1.74	—17.949	— 24

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
510	89 Virginis	5.11	K 0	13 46 52.668	+3.2599	− 70	−17 51 39.57	−17.945	− 43
1359	[+9° 2814 Bootis]	6.54	A 0	13 47 0.170	+2.9803	− 10	+ 8 40 51.65	−17.896	0
511	[10 Draconis]	4.77	M 0	13 49 49.461	+1.7519	− 4	+64 59 39.93	−17.794	− 9
513	η Bootis	2.80	G 0	13 52 3.893	+2.8567	− 44	+18 40 21.58	−18.056	− 362
512	ζ Centauri	3.06	B 2 p	13 52 5.794	+3.7416	− 55	−47 1 6.08	−17.733	− 42
514	[294 G. Centauri]	4.68	K 0	13 53 38.690	+4.3394	− 49	−63 25 4.82	−17.658	− 31
1360	[+32° 2411 C Ven]	6.29	F 2	13 53 44.018	+2.6604	−106	+32 18 1.23	−17.579	+ 45
515	[47 Hydrae]	5.17	B 8	13 55 25.609	+3.3667	− 32	−24 42 16.21	−17.581	− 28
1361	[48 Hydrae]	5.80	F 0	13 56 54.929	+3.3594	−145	−24 44 34.11	−17.589	− 99
1362	[204 G. Virginis]	6.30	F 5	13 56 58.069	+3.1086	− 20	− 3 16 57.75	−17.555	− 68
517	11 Bootis	6.12	A 3	13 58 40.806	+2.7203	− 63	+27 39 5.33	−17.402	+ 12
516	τ Virginis	4.34	A 2	13 58 50.676	+3.0534	+ 11	+ 1 48 35.62	−17.431	− 24
1363	[ϑ Apodis]	5.5–6.7	M 3	13 59 54.084	+5.8384	−241	−76 31 57.75	−17.394	− 34
518	β Centauri	0.86	B 1	13 59 55.348	+4.2327	− 25	−60 6 31.03	−17.380	− 20
1364	[307 G. Centauri]	6.44	A 0 p	14 0 5.742	+3.6538	− 40	−41 9 32.85	−17.384	− 32
1365	[210 G. Virginis]	6.36	K 0	14 1 28.022	+3.2479	− 26	−14 42 29.62	−17.316	− 24
521	α Draconis	3.64	A 0 p	14 2 53.840	+1.6241	− 89	+64 38 17.56	−17.216	+ 13
519	[π Hydrae]	3.48	K 0	14 3 13.961	+3.4167	+ 34	−26 25 5.77	−17.357	− 144
1366	[94 Virginis]	6.56	A 0	14 3 22.779	+3.1773	+ 1	− 8 37 47.96	−17.189	+ 18
520	ϑ Centauri	2.26	K 0	14 3 26.221	+3.5304	−427	−36 6 0.97	−17.726	− 522
1367	[+39° 2720 C Ven]	7.90	K 0	14 4 8.111	+2.5226	+ 9	+38 40 44.83	−17.180	− 7
1368	[9 H. Bootis]	5.44	M 3	14 5 43.844	+2.3982	+ 7	+44 6 55.47	−17.130	− 29
522	12 d Bootis	4.82	F 5	14 7 53.386	+2.7362	− 18	+25 21 5.14	−17.066	− 64
524	4 Ursae min.	5.00	K 0	14 9 1.718	−0.2371	−108	+77 48 21.27	−16.922	+ 28
523	κ Virginis	4.31	K 0	14 9 57.449	+3.2005	+ 5	−10 1 7.07	−16.769	+ 135
525	ι Virginis	4.16	F 5	14 13 7.606	+3.1463	− 7	− 5 44 20.08	−17.182	− 428
526	α Bootis	0.24	K 0	14 13 9.079	+2.7364	−775	+19 28 4.73	−18.751	−1998
528	[ι Bootis]	4.87	A 5	14 14 13.058	+2.1243	−163	+51 37 13.09	−16.613	+ 89
527	λ Bootis	4.26	A 0	14 14 17.576	+2.2807	−182	+46 20 24.63	−16.540	+ 158
1369	[236 G. Virginis]	5.74	A 0 p	14 15 35.416	+3.3175	− 46	−18 27 44.18	−16.677	− 42
1370	[A Bootis]	4.83	K 0	14 15 40.268	+2.5358	− 3	+35 45 45.04	−16.620	+ 12
1371	[λ Virginis]	4.60	A 2	14 16 7.736	+3.2463	− 12	−13 7 8.06	−16.585	+ 24
529	[υ Centauri]	4.41	B 5	14 16 27.948	+4.1881	− 22	−56 8 3.27	−16.606	− 14
1372	[18 Bootis]	5.31	F 0	14 16 36.458	+2.9035	+ 71	+13 15 25.72	−16.620	− 34
1373	[ψ Centauri]	4.17	A 0	14 17 12.136	+3.6481	− 58	−37 37 59.91	−16.566	− 10
1374	[2 Librae]	6.30	K 0	14 20 27.768	+3.2283	− 8	−11 27 49.77	−16.457	− 63
530	[10 G. Circini]	5.71	A 2 p	14 20 30.692	+4.9696	− 23	−67 56 47.76	−16.404	− 14
1375	[244 G. Virginis]	5.08	A 3	14 21 26.959	+2.9855	− 54	+ 6 4 7.41	−16.339	+ 5
1376	[3 G. Librae]	5.39	K 0	14 21 39.948	+3.4231	− 40	−24 33 28.01	−16.359	− 27
1377	[τ^1 Lupi]	4.65	B 3	14 22 35.695	+3.8500	− 14	−44 58 25.29	−16.300	− 15

Mittlere Sternörter 1945.0

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
531	ϑ Bootis	4.06	F 8	14 23 19.406	+2.0422	— 261	+52 6 15.51	—16.650	— 401
1378	[22 Bootis]	5.36	A 5	14 23 53.773	+2.7904	— 52	+19 28 23.71	—16.198	+ 21
532	[52 Hydrae]	5.00	B 8	14 24 56.698	+3.5137	— 18	—29 14 43.83	—16.191	— 26
533	[φ Virginis]	4.99	K 0	14 25 21.911	+3.0915	— 92	— 1 58 56.52	—16.147	— 4
1379	[5 Ursae min.]	4.37	K 2	14 27 36.813	—0.1289	+ 12	+75 56 25.83	—16.007	+ 21
534	ρ Bootis	3.78	K 0	14 29 27.520	+2.5854	— 79	+30 36 43.21	—15.812	+ 117
535	γ Bootis	3.00	F 0	14 29 51.764	+2.4157	— 98	+38 32 52.90	—15.758	+ 149
536	[Grb 2125 Draco]	6.18	F 0	14 30 13.037	+1.6284	— 72	+60 28 2.51	—15.875	+ 14
537	η Centauri	2.65	B 3 p + A 2 p	14 32 0.259	+3.8090	— 30	—41 55 2.59	—15.827	— 35
1380	[σ Bootis]	4.48	F 0	14 32 17.091	+2.6124	+ 146	+29 58 59.39	—15.650	+ 128
1381	[10 G. Librae]	6.24	F 8	14 34 3.962	+3.1921	— 591	—12 4 21.43	—15.320	+ 361
538	*α Centauri	0.33 1.70	G 0 K 5	14 35 50.918	+4.0768	—4885	—60 36 34.93	—14.873	+ 709
540	[33 Bootis]	5.39	A 0	14 36 47.360	+2.2324	— 68	+44 38 28.23	—15.551	— 20
539	[α Circini]	3.42	F 0	14 38 2.120	+4.8457	— 295	—64 44 13.88	—15.698	— 237
541	[α Lupi]	2.89	B 2	14 38 15.582	+3.9895	— 16	—47 9 11.92	—15.468	— 19
1382	32 Bootis	5.63	G 5	14 39 4.856	+2.8823	— 108	+11 53 47.59	—15.522	— 118
545	μ Virginis	3.95	F 5	14 40 9.474	+3.1619	+ 71	— 5 25 12.67	—15.665	— 322
544	[371 G. Centauri]	4.13	K 0	14 40 17.093	+3.6690	— 52	—34 56 16.91	—15.522	— 186
542	α Apodis	3.81	K 5	14 40 55.735	+7.4387	— 8	—78 48 49.21	—15.319	— 21
1383	[34 Bootis]	4.93	M 0	14 41 0.269	+2.6368	— 10	+26 45 38.64	—15.315	— 19
1384	[+33°2489 Boot]	6.47	M 0	14 42 55.582	+2.5096	+ 30	+33 1 13.19	—15.269	— 82
546	[30 G. Lupi]	5.20	K 0	14 43 9.567	+4.1945	— 24	—52 9 7.38	—15.255	— 83
547	109 Virginis	3.76	A 0	14 43 27.924	+3.0334	— 74	+ 2 7 24.81	—15.187	— 31
1385	[56 Hydrae]	5.39	G 5	14 44 31.770	+3.5025	+ 32	—25 51 28.81	—15.096	— 1
1386	[Grb 2152 Boot]	5.98	F 0	14 46 57.092	+2.3553	— 220	+38 2 13.19	—14.847	+ 108
1387	[α¹ Librae]	5.33	F 5	14 47 38.366	+3.3184	— 69	—15 46 11.23	—14.989	— 75
548	α² Librae	2.90	A 3	14 47 49.852	+3.3190	— 73	—15 48 51.80	—14.974	— 71
549	Grb 2164 Draco	5.67	K 2	14 50 2.412	+1.5226	— 167	+59 31 0.78	—14.640	+ 134
550	β Ursae min.	2.24	K 5	14 50 50.521	—0.1766	— 84	+74 22 49.13	—14.718	+ 9
1388	[+6°2957 Virgo]	6.69	K 0	14 50 56.338	+2.9686	— 19	+ 6 27 55.78	—14.712	+ 8
1389	[381 G. Centauri]	5.34	A 0	14 52 21.695	+3.6827	+ 21	—33 38 1.29	—14.641	— 5
551	Pi 14h221 Boot	5.77	A 0	14 53 37.338	+2.8318	— 10	+14 40 3.06	—14.564	— 4
1390	[ξ² Librae]	5.63	K 0	14 53 46.753	+3.2554	+ 4	—11 11 20.01	—14.546	+ 4
1391	[33 G. Librae]	6.00	K 5	14 54 14.901	+3.5041	+ 742	—21 10 7.15	—16.262	—1740
1392	[Pi 14h227 Boot]	6.24	A 0	14 54 34.840	+2.7037	— 10	+21 46 34.63	—14.527	— 25
1393	[Br 1908 Virgo]	5.71	K 0	14 54 43.844	+3.0766	+ 42	+ 0 3 10.64	—14.520	— 27
552	β Lupi	2.81	B 2 p	14 54 55.116	+3.9284	— 37	—42 54 49.32	—14.522	— 41
553	[κ Centauri]	3.35	B 3	14 55 34.396	+3.9027	— 15	—41 53 5.39	—14.469	— 28
554	[2 H. Ursae min.]	4.86	M 3	14 56 42.030	+0.9532	— 138	+66 9 3.86	—14.349	+ 26
1394	[δ Librae]	4.8—5.9	A 0	14 58 1.779	+3.2055	— 44	— 8 18 6.72	—14.301	— 8

Nr. 538. **Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sternes beträgt nach den Elementen von Finsen, Union Observ. Circular 68, 1926:**

$$1945.0 \quad \Delta\alpha = -0.^{s}079 \quad \Delta\delta = -3.''93$$
$$1946.0 \quad = -0.112 \quad = -4.16$$

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
555	β Bootis	3.63	G 5	14 59 52.372	+2.2596	— 40	+40 36 23.78	—14.212	— 33
556	σ Librae	3.41	M 3	15 0 50.685	+3.5116	— 53	—25 4 1.60	—14.166	— 48
557	ψ Bootis	4.67	K o	15 2 5.241	+2.5707	—133	+27 9 39.94	—14.051	— 9
1395	[47 Bootis]	5.59	A o	15 3 36.443	+1.9870	— 68	+48 21 45.80	—13.918	+ 29
1397	[+55° 1730 Boot]	5.21	G 5	15 4 42.292	+1.7133	+ 51	+54 46 2.36	—13.869	+ 9
1396	[45 Bootis]	5.03	F o	15 4 53.027	+2.6351	+135	+25 4 56.27	—14.040	—174
1398	[κ^1 Lupi]	4.14	B 9	15 8 5.900	+4.1696	—100	—48 31 48.68	—13.712	— 51
558	ζ Lupi	3.50	K o	15 8 19.184	+4.3089	—121	—51 53 29.10	—13.713	— 67
559	[ι Librae]	4.66	A op	15 9 4.841	+3.4198	— 27	—19 35 5.53	—13.640	— 42
1399	[1 Lupi]	4.95	F o	15 11 14.733	+3.6754	— 2	—31 18 54.59	—13.461	— 2
562	[3 Serpentis]	5.44	K o	15 12 27.135	+2.9823	— 14	+ 5 8 32.51	—13.379	+ 1
561	[β Circini]	4.16	A 3	15 13 11.383	+4.6952	—126	—58 35 51.06	—13.469	—138
563	δ Bootis	3.54	K o	15 13 17.026	+2.4188	+ 66	+33 31 8.30	—13.445	—118
560	γ Triang. austr.	3.06	A o	15 13 44.613	+5.5986	—105	—68 28 42.03	—13.321	— 27
565	1 H. Ursae min.	5.23	G o	15 13 59.792	+0.6879	+371	+67 33 19.16	—13.671	—391
564	β Librae	2.74	B 8	15 14 2.587	+3.2284	— 66	— 9 10 52.47	—13.299	— 23
1400	[Pi. 15^h 36 Serp]	5.66	G 5	15 15 56.440	+2.6899	— 9	+20 46 21.90	—13.175	— 23
1401	[+10° 2823 Serp]	6.71	F 8	15 16 3.475	+2.8776	— 63	+10 37 37.89	—13.143	+ 1
1402	[δ Lupi]	3.43	B 2	15 17 45.152	+3.9375	— 13	—40 26 59.36	—13.058	— 27
566	φ^1 Lupi	3.59	K 5	15 18 18.449	+3.8062	— 79	—36 3 47.77	—13.081	— 87
1403	[φ^2 Lupi]	4.69	B 3	15 19 38.006	+3.8328	— 14	—36 39 45.69	—12.930	— 25
1404	[73 G. Librae]	6.78	K o	15 19 39.551	+3.5852	+ 24	—26 29 36.53	—12.912	— 8
1405	[30 Librae]	6.74	K 2	15 19 57.423	+3.3461	— 2	—14 56 20.80	—12.874	+ 11
569	γ Ursae min.	3.14	A 2	15 20 47.828	—0.0963	— 48	+72 1 47.07	—12.811	+ 19
1406	[8 Serpentis]	6.10	F o	15 20 53.378	+3.0930	+ 49	— 0 49 38.82	—12.853	— 31
568	μ Bootis *pr*	4.47	F o	15 22 24.668	+2.2665	—124	+37 34 8.64	—12.637	+ 83
570	[τ^1 Serpentis]	5.46	M o	15 23 14.199	+2.7825	— 12	+15 37 12.81	—12.677	— 14
571	ι Draconis	3.47	K o	15 23 42.078	+1.3344	— 16	+59 9 29.23	—12.620	+ 13
1407	[32 Librae]	5.92	K o	15 25 8.982	+3.3836	+ 10	—16 31 33.97	—12.569	— 36
567	[κ^1 Apodis]	5.65	B 5p	15 25 28.419	+6.5333	+ 15	—73 12 5.36	—12.543	— 34
572	β Coronae bor.	3.72	F op	15 25 33.580	+2.4736	—138	+29 17 39.29	—12.423	+ 82
1408	[+9° 3055 Serp]	6.46	F 2	15 28 15.069	+2.9131	+ 24	+ 8 45 57.63	—12.323	— 2
573	ν^1 Bootis	5.15	K 5	15 28 57.111	+2.1549	+ 7	+41 1 10.79	—12.280	— 7
576	[ϑ Coronae bor.]	4.17	B 5	15 30 42.599	+2.4190	— 19	+31 32 37.11	—12.168	— 18
1409	[37 Librae]	4.83	K o	15 31 10.060	+3.2790	+204	— 9 52 38.63	—12.360	—241
574	[ε Triang. austr.]	4.11	K o	15 31 39.639	+5.4875	+ 45	—66 8 3.61	—12.151	— 69
578	α Coronae bor.	2.31	A o	15 32 21.451	+2.5402	+ 90	+26 53 55.35	—12.127	— 91
1410	115 G. Lupi	5.47	K 5	15 32 25.434	+4.1083	— 48	—44 12 50.23	—12.074	— 44
577	γ Librae	4.02	K o	15 32 26.691	+3.3561	+ 43	—14 36 27.17	—12.028	+ 1
579	[υ Librae]	3.78	K 2	15 33 40.754	+3.6423	— 4	—27 57 15.74	—11.944	— 2

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.0001 s	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew in 0."001
		m		h m s	s		° ' "	"	
1411	[2 G. Normae]	5.48	A 0	15 34 43.455	+4.4571	− 39	−52 11 34.90	−11.908	− 40
580	[φ Bootis]	5.41	G 5	15 35 50.972	+2.1546	+ 52	+40 31 53.46	−11.734	+ 56
1412	[Pi 15ʰ153 Boot]	5.78	F 0	15 36 30.379	+1.9211	+ 81	+46 58 41.24	−11.870	− 126
1413	[κ Librae]	4.96	K 5	15 38 46.348	+3.4568	− 27	−19 30 7.45	−11.692	− 111
582	α Serpentis	2.75	K 0	15 41 33.381	+2.9552	+ 92	+ 6 35 50.59	−11.337	+ 45
583	β Serpentis	3.74	A 2	15 43 38.831	+2.7692	+ 48	+15 35 33.75	−11.280	− 48
587	[12 H. Draconis]	5.13	A 2	15 45 49.251	+0.9140	+ 48	+62 46 8.63	−11.136	− 61
590	ζ Ursae min.	4.34	A 2	15 45 58.551	−2.1465	+ 52	+77 57 52.46	−11.069	− 4
584	κ Serpentis	4.28	K 5	15 46 15.722	+2.7008	− 34	+18 18 36.87	−11.131	− 89
585	μ Serpentis	3.63	A 0	15 46 44.799	+3.1311	− 58	− 3 15 47.89	−11.034	− 28
586	[χ Lupi]	4.11	B 9	15 47 27.388	+3.8119	− 8	−33 27 40.46	−10.986	− 32
588	ε Serpentis	3.75	A 2	15 48 4.295	+2.9907	+ 85	+ 4 38 31.11	−10.846	+ 63
1414	[κ Coronae bor.]	4.77	K 0	15 49 9.465	+2.2605	− 10	+35 49 36.94	−11.182	− 353
1415	[λ Librae]	5.06	B 3	15 50 8.190	+3.4830	− 7	−20 0 14.95	−10.785	− 28
589	β Triang. austr.	3.04	F 0	15 50 16.530	+5.2841	−282	−63 15 46.83	−11.139	− 393
1416	[χ Herculis]	4.61	G 0	15 50 46.305	+2.0738	+393	+42 36 16.17	−10.083	+ 628
591	[γ Serpentis]	3.86	F 5	15 53 54.611	+2.7713	+213	+15 50 23.40	−11.764	−1286
1417	[48 Librae]	4.68	B 3p	15 55 6.302	+3.3597	− 10	−14 7 19.95	−10.410	− 22
593	ε Coronae bor.	4.22	K 0	15 55 18.502	+2.4837	− 61	+27 2 9.51	−10.437	− 64
592	[π Scorpii]	3.00	B 2	15 55 31.151	+3.6295	− 6	−25 57 26.21	−10.381	− 25
1418	[144 G. Lupi]	5.07	G 5	15 55 45.052	+4.0869	− 22	−41 35 17.47	−10.349	− 10
595	[Grb 2296 Draco]	4.96	A 5	15 56 28.863	+1.4227	−185	+54 54 16.02	−10.180	+ 106
594	δ Scorpii	2.54	B 0	15 57 4.585	+3.5477	− 5	−22 28 0.26	−10.267	− 27
1419	[49 Librae]	5.53	F 8	15 57 14.119	+3.3667	−441	−16 22 22.30	−10.625	− 397
1420	[50 Librae]	5.55	A 0	15 57 49.235	+3.2391	− 12	− 8 15 26.18	−10.202	− 18
598	θ Draconis	4.11	F 8	16 0 51.216	+1.1238	−413	+58 42 41.73	− 9.621	+ 335
597	β Scorpii *pr*	2.90	B 1	16 2 14.067	+3.4886	− 2	−19 39 23.25	− 9.871	− 22
596	[δ Normae]	4.84	A 3p	16 2 35.687	+4.2394	+ 4	−45 1 32.65	− 9.791	+ 31
599	[θ Lupi]	4.33	B 3	16 2 58.394	+3.9391	− 17	−36 39 15.51	− 9.828	− 36
1421	[κ Herculis *pr*]	5.34	G 5	16 5 35.444	+2.7078	− 25	+17 11 31.69	− 9.605	− 11
1422	[+6° 3169 Serp]	6.02	G 5	16 6 28.526	+2.9543	+157	+ 6 32 3.28	−10.249	− 724
1423	[τ Coronae bor.]	4.94	K 0	16 6 57.499	+2.1934	− 48	+36 37 46.17	− 9.164	+ 325
601	[φ Herculis]	4.26	B 9p	16 7 2.055	+1.8900	− 28	+45 4 41.44	− 9.448	+ 35
600	[κ Normae]	5.09	K 0	16 9 7.681	+4.7300	− 11	−54 29 24.85	− 9.345	− 26
602	[δ Triang. austr.]	4.03	G 0	16 10 24.795	+5.4589	+ 10	−63 32 51.05	− 9.233	− 15
603	δ Ophiuchi	3.03	M 0	16 11 27.608	+3.1440	− 31	− 3 33 15.09	− 9.285	− 146
1424	[δ¹ Apodis]	4.78	M 3	16 12 3.183	+8.9571	− 23	−78 33 40.15	− 9.126	− 37
606	19 Ursae min.	5.51	B 8	16 12 21.734	−1.7127	− 15	+76 1 0.67	− 9.058	+ 13
1425	[17 Herculis]	6.59	K 0	16 13 55.870	+2.5581	− 12	+23 15 29.50	− 8.961	− 14
605	ε Ophiuchi	3.34	K 0	16 15 24.476	+3.1743	+ 55	− 4 33 35.63	− 8.791	+ 39

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ' "	"	
604	γ² Normae	4.14	K 0	16 15 42.862	+4.4878	−170	−50 1 21.37	−8.859	−54
1426	[55 G. Scorpii sq]	5.69	F 2	16 16 3.635	+3.7952	+66	−30 46 29.99	−8.758	+21
607	[σ Scorpii]	3.10	B 1	16 17 50.426	+3.6466	−7	−25 27 45.01	−8.663	−24
608	τ Herculis	3.91	B 5	16 18 5.108	+1.8034	−12	+46 26 36.47	−8.584	+37
612	[η Ursae min.]	5.04	F 0	16 19 5.048	−1.7554	−230	+75 52 58.13	−8.294	+250
1427	[σ Serpentis]	4.80	F 0	16 19 17.044	+3.0382	−106	+1 9 24.72	−8.476	+50
609	γ Herculis	3.79	F 0	16 19 29.501	+2.6465	−35	+19 16 51.69	−8.465	+44
1428	[23 Herculis]	6.30	A 2	16 20 49.660	+2.3025	+9	+32 27 36.82	−8.414	−10
1429	[21 Herculis]	5.72	A 0	16 21 29.913	+2.9224	−1	+7 4 26.39	−8.332	+18
610	[ζ Triang. austr.]	4.93	G 0	16 22 31.622	+6.4516	+403	−69 57 47.81	−8.160	+104
613	[ω Herculis]	4.53	A 0p	16 22 52.511	+2.7687	+27	+14 9 30.83	−8.299	−59
614	[Grb 2343 Draco]	5.66	A 2	16 23 12.940	+1.3124	+13	+55 19 46.13	−8.197	+17
611	γ Apodis	3.90	K 0	16 24 56.751	+9.1975	−408	−78 46 39.69	−8.138	−67
616	α Scorpii	1.22	M 0 + A 3	16 26 1.850	+3.6790	−2	−26 18 41.97	−8.010	−23
1430	[22 G. Ophiuchi]	5.75	G 0	16 26 40.134	+3.3910	+20	−14 25 53.86	−7.920	+16
1431	[N Scorpii]	4.33	B 3	16 27 46.943	+3.9204	−6	−34 35 10.65	−7.861	−15
618	β Herculis	2.81	K 0	16 27 51.209	+2.5789	−72	+21 36 29.44	−7.857	−16
619	A Draconis	4.98	B 8p	16 28 4.765	−0.1178	−53	+68 53 13.83	−7.791	+34
1432	Pi 16h 140 Draco	5.85	A 0	16 31 38.664	+0.8471	+18	+60 56 17.13	−7.550	−13
621	σ Herculis	4.25	A 0	16 32 19.659	+1.9341	−12	+42 32 58.21	−7.437	+43
620	[τ Scorpii]	2.91	B 0	16 32 27.228	+3.7349	−5	−28 6 13.17	−7.493	−25
623	[Grb 2373 U Min]	6.39	G 5	16 32 58.572	−2.5833	−327	+77 33 25.85	−7.157	+274
1433	[12 Ophiuchi]	5.87	K 0	16 33 27.916	+3.1513	+302	−2 12 31.59	−7.702	−315
622	ζ Ophiuchi	2.70	B 0	16 34 7.619	+3.3035	+8	−10 27 26.27	−7.309	+24
1434	[42 Herculis]	5.14	M 0	16 37 15.124	+1.6286	−48	+49 2 6.60	−7.047	+32
624	[Br 2114 Ophi]	5.04	K 0	16 38 23.284	+3.4698	−16	−17 38 14.63	−6.988	−3
626	η Herculis	3.61	K 0	16 41 0.502	+2.0567	+29	+39 1 33.05	−6.854	−83
625	α Triang. austr.	1.88	K 2	16 42 49.298	+6.3521	+51	−68 55 46.73	−6.651	−33
627	Grb 2377 Draco	4.88	F 0	16 44 14.962	+1.1377	+17	+56 52 46.56	−6.439	+65
1436	[19 Ophiuchi]	6.04	A 2	16 44 23.189	+3.0239	−16	+2 9 44.06	−6.503	−12
1435	[η Arae]	3.68	K 5	16 45 1.462	+5.1791	+43	−58 56 44.03	−6.467	−30
1437	[−21° 4422 Ophi]	7.60	M 0	16 46 17.950	+3.5784	−8	−21 45 26.82	−6.353	−20
628	ε Scorpii	2.36	K 0	16 46 35.778	+3.8860	−490	−34 11 42.68	−6.560	−252
1438	[20 Ophiuchi]	4.73	F 5	16 46 47.269	+3.3189	+63	−10 41 14.60	−6.389	−97
1439	[μ¹ Scorpii]	3.09	B 3p	16 48 8.357	+4.0639	−8	−37 57 17.85	−6.207	−28
1440	[51 Herculis]	5.20	K 0	16 49 28.357	+2.4871	+9	+24 44 51.69	−6.061	+9
629	49 Herculis	6.41	A 0p	16 49 34.470	+2.7313	+10	+15 3 54.45	−6.058	+3
1441	[53 Herculis]	5.35	F 0	16 50 52.766	+2.2746	−78	+31 47 29.49	−5.972	−19
1442	[ι Ophiuchi]	4.29	B 8	16 51 24.204	+2.8387	−35	+10 15 16.08	−5.945	−37
1443	[51 G. Apodis]	7.00	F 8	16 53 18.500	+8.2494	−98	−76 7 59.48	−5.893	−149

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.0001 s	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.001"
		m		h m s	s		° ' "	"	
1444	24 G. Arae	5.70	B 9	16 54 2.794	+ 4.6293	− 14	−50 33 23.08	−5.730	− 44
631	ζ Arae	3.06	K 5	16 54 3.584	+ 4.9641	− 20	−55 54 19.99	−5.717	− 33
633	κ Ophiuchi	*4.1-5.0*	K 0	16 55 3.763	+ 2.8396	−199	+ 9 27 32.82	−5.610	− 8
632	[ε¹ Arae]	4.15	K 2	16 55 11.520	+ 4.7809	0	−53 4 41.17	−5.572	+ 17
1445	[30 Ophiuchi]	5.00	K 0	16 58 9.392	+ 3.1631	− 34	− 4 8 30.28	−5.419	− 78
634	ε Herculis	3.92	A 0	16 58 10.989	+ 2.2952	− 40	+31 0 22.50	−5.311	+ 28
1446	[59 Herculis]	5.27	A 2	16 59 34.401	+ 2.2142	− 4	+33 38 48.07	−5.226	− 4
635	[60 Herculis]	4.91	A 3	17 2 49.533	+ 2.7820	+ 33	+12 48 53.87	−4.955	− 9
1448	[Pi 16ʰ 307 Herc]	6.36	A 0	17 3 24.292	+ 1.8269	0	+43 53 9.58	−4.899	− 1
1447	[80 G. Ophiuchi]	6.20	A 0	17 3 28.530	+ 3.7178	+ 2	−26 26 25.42	−4.910	− 19
1449	85 G. Ophiuchi	6.14	K 0	17 5 3.031	+ 3.4836	+ 2	−17 32 16.48	−4.792	− 35
636	[Grb 2415 Herc]	6.27	A 2	17 5 58.939	+ 1.9567	− 34	+40 35 12.92	−4.712	− 33
1450	[88 G. Ophiuchi]	5.58	F 5	17 6 45.343	+ 3.3169	+ 38	−10 27 10.96	−4.714	− 101
638	[η Scorpii]	3.44	F 2	17 8 12.521	+ 4.2969	+ 22	−43 10 7.19	−4.771	− 283
639	ζ Draconis	3.22	B 5	17 8 37.308	+ 0.1737	− 32	+65 46 56.19	−4.434	+ 21
1451	[97 G. Ophiuchi]	6.39	K 0	17 9 5.956	+ 2.8928	+ 18	+ 7 57 36.83	−4.402	+ 11
641	δ Herculis	3.16	A 2	17 12 46.233	+ 2.4642	− 18	+24 54 9.94	−4.258	− 158
643	π Herculis	3.36	K 5	17 13 7.769	+ 2.0894	− 25	+36 52 12.24	−4.065	+ 4
1452	[139 G. Scorpii]	5.55	F 5	17 13 28.749	+ 3.9027	− 76	−32 36 9.24	−4.091	− 53
1453	[U Ophiuchi]	5.7–6.4	B 8	17 13 44.129	+ 3.0437	− 5	+ 1 16 12.98	−4.033	− 16
642	[ι Apodis]	5.60	B 8	17 15 57.050	+ 6.6916	+ 12	−70 4 6.91	−3.838	− 14
1454	Pi 17ʰ 68 Herc	5.17	M 0	17 17 53.303	+ 2.6437	+ 2	+18 6 44.30	−3.714	− 54
1456	[72 Herculis]	5.36	G 0	17 18 35.933	+ 2.2443	+ 97	+32 32 14.25	−4.642	−1042
644	ϑ Ophiuchi	3.37	B 3	17 18 37.731	+ 3.6845	− 2	−24 56 47.19	−3.617	− 21
645	β Arae	2.80	K 2	17 20 43.306	+ 4.9868	− 7	−55 28 49.00	−3.439	− 25
1455	[59 G. Apodis]	5.93	M 3	17 21 7.757	+11.2206	+ 25	−80 48 48.81	−3.416	− 41
1457	[44 Ophiuchi]	4.28	F 0	17 23 0.504	+ 3.6639	0	−24 7 35.46	−3.335	− 116
1458	[138 G. Ophiuchi]	6.31	F 5	17 23 6.462	+ 3.1150	+ 48	− 1 36 19.38	−3.163	+ 47
647	[27 H. Ophiuchi]	4.61	F 0	17 23 42.635	+ 3.1831	− 64	− 5 2 22.52	−3.202	− 44
1459	[σ Ophiuchi]	4.44	K 0	17 23 47.006	+ 2.9765	− 1	+ 4 11 11.81	−3.146	+ 6
646	[45 Ophiuchi]	4.37	F 5	17 23 50.351	+ 3.8310	+ 15	−29 49 8.95	−3.287	− 141
650	[77 Herculis]	5.81	A 2	17 25 16.616	+ 1.5899	− 4	+48 18 19.27	−3.030	− 7
648	δ Arae	3.79	B 8	17 26 7.657	+ 5.4160	− 66	−60 38 25.51	−3.036	− 88
649	[υ Scorpii]	2.80	B 3	17 27 1.259	+ 4.0789	0	−37 15 14.04	−2.902	− 31
651	α Arae	2.97	B 3p	17 27 35.147	+ 4.6377	− 28	−49 50 5.29	−2.894	− 72
1460	[λ Herculis]	4.48	K 0	17 28 30.821	+ 2.4244	+ 11	+26 9 3.03	−2.725	+ 18
653	β Draconis	2.99	G 0	17 29 11.249	+ 1.3553	− 21	+52 20 29.01	−2.673	+ 13
652	λ Scorpii	1.71	B 2	17 29 52.237	+ 4.0738	0	−37 3 56.32	−2.652	− 28
655	[ν¹ Draconis]	4.98	A 5	17 31 5.395	+ 1.1809	+165	+55 13 16.34	−2.467	+ 54
657	[ν² Draconis]	4.95	A 5	17 31 10.823	+ 1.1820	+168	+55 12 35.09	−2.460	+ 53

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		m		h m s	s		° ' "	"	
1462	[Grb 2444 Herc]	5.82	K 0	17 31 22.424	+1.9021	− 71	+41 16 52.71	−2.559	− 64
1461	[−11° 4411 Serp]	5.68	B 8	17 31 42.653	+3.3349	− 10	−11 12 22.93	−2.460	+ 6
659	[27 Draconis]	5.21	K 0	17 32 10.749	−0.2409	− 29	+68 10 12.67	−2.293	+134
656	α Ophiuchi	2.14	A 5	17 32 22.776	+2.7847	+ 80	+12 35 55.04	−2.634	−226
654	ϑ Scorpii	2.04	F 0	17 33 21.803	+4.3107	+ 15	−42 57 53.48	−2.318	+ 3
658	ξ Serpentis	3.64	A 5	17 34 26.094	+3.4349	− 32	−15 21 56.50	−2.290	− 61
664	ω Draconis	4.87	F 5	17 37 16.115	−0.3516	+ 2	+68 47 0.86	−1.662	+323
663	ι Herculis	3.79	B 3	17 37 54.604	+1.6933	− 9	+46 2 4.89	−1.924	+ 4
660	[ϰ Scorpii]	2.51	B 2	17 38 40.789	+4.1502	− 5	−39 0 13.33	−1.887	− 28
662	[μ Arae]	5.26	G 5	17 39 46.420	+4.7629	− 21	−51 48 25.13	−1.951	−188
1463	[58 Ophiuchi]	4.89	F 5	17 40 7.922	+3.5951	− 67	−21 39 29.92	−1.781	− 48
661	η Pavonis	3.58	K 0	17 40 19.822	+5.8892	− 4	−64 42 1.07	−1.764	− 50
665	β Ophiuchi	2.94	K 0	17 40 45.224	+2.9635	− 28	+ 4 35 19.37	−1.520	+159
670	ψ Draconis *pr*	4.90	F 5	17 42 54.645	−1.0672	+ 38	+72 10 35.03	−1.760	−267
666	[ι¹ Scorpii]	3.14	F 5 p	17 43 44.115	+4.1961	+ 2	−40 6 27.75	−1.422	− 4
1464	[X Sagittarii]	4.4—5.0	F 8 v	17 44 5.764	+3.7762	− 2	−27 48 42.24	−1.396	− 9
667	μ Herculis	3.48	G 5	17 44 18.237	+2.3479	−238	+27 45 6.14	−2.114	−744
668	[γ Ophiuchi]	3.74	A 0	17 45 7.985	+3.0081	− 16	+ 2 43 35.21	−1.368	− 71
1465	[+20° 3570 Herc]	5.77	K 0	17 46 3.040	+2.5733	+ 9	+20 34 56.27	−1.218	0
669	[G Scorpii]	3.25	K 2	17 46 6.768	+4.0843	+ 51	−37 1 39.75	−1.177	+ 34
1466	[+9° 3485 Ophi]	6.79	K 5	17 47 32.928	+2.8385	− 27	+ 9 51 49.18	−1.138	− 52
675	35 Draconis	5.04	F 5	17 51 54.406	−2.6869	+109	+76 58 17.43	−0.464	+246
1467	[−7° 4523 Ophi]	6.87	G 5	17 51 58.748	+3.2508	− 35	− 7 43 27.98	−0.756	− 57
671	ξ Draconis	3.90	K 0	17 52 34.531	+1.0371	+110	+56 52 50.47	−0.573	+ 76
1468	[89 Herculis]	5.48	F 5 p	17 53 11.935	+2.4199	− 2	+26 3 26.99	−0.587	+ 6
672	ϑ Herculis	3.99	K 0	17 54 21.898	+2.0571	− 1	+37 15 24.10	−0.485	+ 6
676	γ Draconis	2.42	K 5	17 55 19.617	+1.3927	− 13	+51 29 40.67	−0.428	− 20
674	[ξ Herculis]	3.82	K 0	17 55 37.555	+2.3312	+ 62	+29 15 9.21	−0.399	− 19
673	ν Ophiuchi	3.50	K 0	17 55 59.818	+3.3026	− 6	− 9 46 6.90	−0.467	−120
1469	[93 Herculis]	4.71	K 0	17 57 36.427	+2.6705	− 5	+16 45 9.44	−0.218	− 11
677	67 Ophiuchi	3.95	B 5 p	17 57 53.316	+3.0044	− 4	+ 2 55 57.47	−0.193	− 10
1470	[6 Sagittarii]	6.31	K 2	17 58 11.262	+3.4855	− 2	−17 9 23.57	−0.163	− 7
679	γ Sagittarii	3.07	K 0	18 2 16.407	+3.8538	− 41	−30 25 35.96	+0.017	−185
1471	[ϑ Arae]	3.90	B 1 p	18 2 20.869	+4.6696	− 14	−50 5 50.65	+0.191	− 18
678	[66 G. Apodis]	5.69	K 5	18 3 34.136	+8.3953	+ 44	−75 53 48.15	+0.040	−278
680	72 Ophiuchi	3.73	A 3	18 4 44.438	+2.8440	− 43	+ 9 33 16.43	+0.499	+ 82
681	o Herculis	3.83	A 0	18 5 23.717	+2.3399	− 3	+28 45 13.32	+0.482	+ 9
1472	[−13° 4863 Serp]	6.50	K 0	18 6 35.910	+3.4049	+ 1	−13 56 42.92	+0.581	+ 1
1473	[ε Telescopii]	4.60	K 0	18 7 8.744	+4.4530	− 15	−45 57 57.86	+0.597	− 31
682	μ Sagittarii	4.01	B 8 p	18 10 28.379	+3.5876	+ 1	−21 4 30.24	+0.918	− 1

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		m		h m s	s		° ′ ″	″	
1474	[6 G. Telescopii]	5.54	B 5	18 12 29.443	+5.0522	— 22	—56 2 34.61	+1.083	— 12
685	36 Draconis	5.03	F 5	18 13 34.712	+0.3448	+ 529	+64 22 42.30	+1.218	+ 31
683	[η Sagittarii]	3.16	M 3	18 13 54.256	+4.0593	— 109	—36 46 48.62	+1.055	—164
684	[Grb 2533 Lyra]	5.42	B 5	18 13 56.011	+1.8657	— 7	+42 8 22.27	+1.215	— 4
1475	[Br 2292 Serp]	6.30	A 5	18 14 22.344	+3.3029	— 1	— 9 46 44.65	+1.194	— 64
687	[δ Sagittarii]	2.84	K 0	18 17 28.351	+3.8410	+ 31	—29 51 12.25	+1.500	— 29
1477	[κ Lyrae]	4.34	K 0	18 17 55.940	+2.1022	— 17	+36 2 19.30	+1.611	+ 42
1476	[74 Ophiuchi]	4.92	G 5	18 18 7.212	+2.9948	— 4	+ 3 21 3.43	+1.596	+ 10
686	[ξ Pavonis]	4.25	K 2	18 18 9.523	+5.5281	— 5	—61 31 17.69	+1.595	+ 4
688	η Serpentis	3.42	K 0	18 18 27.740	+3.1038	— 372	— 2 54 52.86	+0.918	—697
689	ε Sagittarii	1.95	A 0	18 20 31.287	+3.9825	— 23	—34 24 45.35	+1.669	—126
690	109 Herculis	3.92	K 0	18 21 21.161	+2.5563	+ 137	+21 44 36.33	+1.625	—242
695	χ Draconis	3.69	F 8	18 22 2.899	—1.0826	+1169	+72 42 34.41	+1.569	—356
691	α Telescopii	3.76	B 3	18 22 53.706	+4.4483	— 16	—46 0 2.73	+1.960	— 42
1478	[+7° 3682 Ophi]	5.69	G 0 + A 3	18 22 59.944	+2.8857	— 6	+ 7 59 58.69	+2.004	— 6
1479	[+29° 3259 Herc]	5.71	A 2	18 23 51.348	+2.3124	+ 2	+29 47 45.81	+2.063	— 22
692	[λ Sagittarii]	2.94	K 0	18 24 34.540	+3.7022	— 33	—25 27 14.02	+1.965	—183
696	[γ Scuti]	4.73	A 3	18 26 3.704	+3.4190	0	—14 36 9.41	+2.273	— 3
1480	[60 Serpentis]	5.44	K 0	18 26 49.161	+3.1218	+ 18	— 2 1 20.90	+2.309	— 33
1481	[+16° 3529 Herc]	5.67	A 0	18 28 37.546	+2.6675	— 32	+16 53 20.44	+2.472	— 27
697	[ϑ Coron. austr.]	4.69	G 5	18 29 34.517	+4.2837	+ 25	—42 21 15.10	+2.561	— 21
1482	[α Scuti]	4.06	K 0	18 32 12.782	+3.2644	— 14	— 8 17 3.09	+2.498	—312
1483	[Grb 2603 Lyra]	6.66	A 0	18 32 14.343	+1.6946	— 1	+46 10 29.92	+2.825	+ 14
700	[Grb 2655 Draco]	5.84	K 0	18 32 24.951	—2.8981	— 12	+77 30 20.36	+2.825	+ 2
1484	[+9° 3783 Ophi]	5.40	F 2	18 33 50.315	+2.8610	— 10	+ 9 4 39.75	+2.824	—126
1485	[83 G. Sagittarii]	5.80	A 5	18 34 36.800	+3.5919	— 2	—21 26 42.08	+2.948	— 70
699	α Lyrae	0.14	A 0	18 35 4.504	+2.0310	+ 170	+38 43 52.86	+3.340	+283
701	[Grb 2640 Draco]	6.00	A 3	18 36 2.881	+0.1871	+ 17	+65 26 21.58	+3.221	+ 82
698	ζ Pavonis	4.10	K 0	18 36 37.265	+7.0122	+ 15	—71 28 43.58	+3.033	—160
1486	[δ Scuti]	4.74	F 0	18 39 15.681	+3.2845	+ 3	— 9 6 24.47	+3.419	0
702	[ε Scuti]	5.09	G 5	18 40 31.480	+3.2671	+ 13	— 8 19 52.39	+3.534	+ 6
1487	[φ Sagittarii]	3.30	B 8	18 42 13.212	+3.7478	+ 39	—27 2 56.94	+3.675	+ 1
703	110 Herculis	4.26	F 5	18 43 17.591	+2.5815	— 12	+20 29 32.47	+3.431	—335
1488	[+26° 3349 Lyra]	4.92	K 0	18 43 51.412	+2.4174	+ 12	+26 36 7.47	+3.839	+ 25
1489	[β Scuti]	4.47	G 0	18 44 15.315	+3.1827	— 8	— 4 48 30.00	+3.832	— 17
1491	[111 Herculis]	4.37	A 3	18 44 35.448	+2.6491	+ 48	+18 7 7.99	+3.991	+114
1490	[η^1 Coron. austr.]	5.59	A 2	18 44 52.383	+4.3296	+ 21	—43 44 30.85	+3.890	— 13
1492	[Grb 2671 Draco]	5.76	B 5	18 45 29.294	+1.3403	+ 9	+52 55 36.55	+3.950	— 3
704	λ Pavonis	4.42	B 2	18 47 7.579	+5.5584	— 11	—62 15 11.90	+4.079	— 17
1493	[30 Sagittarii]	6.24	F 0	18 47 32.075	+3.6053	— 21	—22 13 36.84	+4.099	— 31

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		m m		h m s	s		° ′ ″	″	
705	β Lyrae	3.4—4.3	B 8 p + B 2 p	18 48 2.863	+2.2145	— 2	+33 17 51.67	+4.171	— 2
1494	[50 Draconis]	5.37	A 0	18 48 9.405	—1.9386	— 53	+75 22 12.68	+4.257	+ 78
707	o Draconis	4.85	K 0	18 50 23.367	+0.8849	+ 98	+59 19 14.29	+4.397	+ 25
706	σ Sagittarii	2.14	B 3	18 51 51.322	+3.7195	+ 10	—26 22 0.70	+4.444	— 55
1495	[114 G. Sagittar.]	5.58	F 5	18 52 20.885	+3.4550	— 24	—16 26 43.06	+4.354	—187
709	ϑ Serpentis *pr*	4.50	A 5	18 53 29.064	+2.9822	+ 29	+ 4 7 50.13	+4.674	+ 36
711	R Lyrae	4.0—4.5	M 3	18 53 39.607	+1.8253	+ 17	+43 52 21.76	+4.734	+ 82
708	λ Telescopii	5.03	B 9	18 54 4.007	+4.7998	+ 19	—53 0 45.90	+4.695	+ 8
710	[ξ² Sagittarii]	3.61	K 0	18 54 26.921	+3.5784	+ 20	—21 10 50.65	+4.705	— 14
714	[υ Draconis]	4.91	K 0	18 55 4.606	—0.7350	+ 95	+71 13 26.86	+4.817	+ 47
713	γ Lyrae	3.30	A 0 p	18 56 53.075	+2.2437	— 7	+32 36 46.58	+4.926	+ 1
712	[ε Aquilae]	4.21	K 0	18 57 7.498	+2.7225	— 39	+14 59 31.92	+4.872	— 74
716	ζ Aquilae	3.02	A 0	19 2 52.858	+2.7569	— 8	+13 46 49.13	+5.338	— 94
717	λ Aquilae	3.55	B 9	19 3 19.763	+3.1832	— 17	— 4 57 59.70	+5.383	— 87
1496	[τ Sagittarii]	3.42	K 0	19 3 30.423	+3.7452	— 42	—27 45 9.45	+5.236	—250
1497	[21 G. Aquilae]	6.72	B 8	19 3 44.277	+3.1063	+ 10	— 1 25 54.79	+5.496	— 9
1498	[Pi 18ʰ318 Lyra]	5.46	A 5	19 4 26.687	+2.3805	+ 55	+28 32 27.35	+5.650	+ 87
719	[ι Lyrae]	5.13	B 5	19 5 20.238	+2.1403	— 8	+36 0 46.43	+5.639	0
718	α Coron. austr.	4.12	A 2	19 5 43.943	+4.0814	+ 73	—37 59 31.43	+5.573	— 99
720	π Sagittarii	3.02	F 2	19 6 29.608	+3.5674	— 1	—21 6 46.22	+5.700	— 37
1499	[42 G. Octantis]	6.78	A 2	19 8 56.155	+8.1513	— 2	—75 53 42.96	+5.932	— 12
1500	[20 Aquilae]	5.37	B 3	19 9 41.676	+3.2537	+ 6	— 8 1 59.03	+5.997	— 7
723	δ Draconis	3.24	K 0	19 12 32.768	+0.0136	+160	+67 33 53.35	+6.332	+ 93
722	[43 Sagittarii]	5.03	K 0	19 14 25.041	+3.5096	— 9	—19 3 9.18	+6.381	— 16
724	ϑ Lyrae	4.46	K 0	19 14 27.448	+2.0819	— 8	+38 2 4.93	+6.401	+ 2
725	ω Aquilae	5.14	A 5	19 15 14.017	+2.8155	— 4	+11 29 41.57	+6.482	+ 18
726	κ Cygni	3.98	K 0	19 15 49.864	+1.3860	+ 61	+53 15 58.64	+6.636	+123
1501	[162 G. Sagittar.]	5.61	B 5	19 16 1.408	+3.9753	+ 3	—35 31 23.56	+6.528	— 2
729	τ Draconis	4.63	K 0	19 16 37.248	—1.1552	—331	+73 15 14.48	+6.687	+112
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 18 34.646	+3.4352	— 2	—16 3 35.59	+6.735	— 6
1502	[β¹ Sagittarii]	4.31	B 8	19 18 41.215	+4.3124	+ 1	—44 33 51.44	+6.731	— 19
728	α Sagittarii	4.11	B 8	19 20 4.703	+4.1564	+ 26	—40 43 16.70	+6.746	—118
1503	[31 Aquilae]	5.23	G 5	19 22 20.789	+2.8602	+489	+11 49 30.95	+7.689	+639
730	δ Aquilae	3.44	F 0	19 22 43.471	+3.0243	+167	+ 3 0 13.18	+7.165	+ 84
1504	[59 G. Telescopii]	5.58	K 2	19 23 23.467	+4.8193	— 2	—54 26 13.69	+7.151	+ 15
731	[186 G. Sagittar.]	5.68	B 9	19 23 28.042	+3.7912	+ 15	—29 51 13.41	+7.097	— 45
1505	[Br 2462 Vulp]	6.04	K 5	19 24 4.212	+2.6237	— 8	+19 46 51.03	+7.144	— 46
1506	[Grb 2844 Cygn]	6.72	G 5	19 24 15.840	+1.8295	— 46	+44 49 15.24	+7.129	— 76
1507	[Pi 19ʰ156 Draco]	6.46	B 8	19 24 47.020	+1.0839	— 20	+57 54 57.26	+7.257	+ 9
734	Grb 2900 Draco	6.00	A 2	19 25 3.109	—3.6388	+ 40	+79 29 39.73	+7.235	— 31

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		m		h m s	s		° ' "	"	
1508	[α Vulpeculae]	4.63	M o	19 26 24.920	+2.4960	− 97	+24 33 8.47	+ 7.278	− 103
1509	[36 Aquilae]	5.22	M o	19 27 47.211	+3.1370	+ 9	− 2 54 17.82	+ 7.487	− 6
733	ι Cygni	3.94	A 2	19 28 19.124	+1.5121	+ 19	+51 36 42.67	+ 7.664	+ 129
732	β Cygni *pr*	3.24	K o + A o	19 28 30.114	+2.4190	− 3	+27 50 34.58	+ 7.546	− 4
1510	[8 Cygni]	4.85	B 3	19 29 43.572	+2.2290	− 6	+34 20 5.76	+ 7.649	0
735	[ι Telescopii]	5.02	K o	19 31 8.445	+4.4502	− 16	−48 13 11.16	+ 7.730	− 35
1511	[μ Aquilae]	4.65	K o	19 31 24.092	+2.9304	+ 141	+ 7 15 38.79	+ 7.630	− 155
736	52 Sagittarii	4.66	B 9	19 33 21.707	+3.6504	+ 51	−25 0 24.07	+ 7.923	− 20
737	[κ Aquilae]	5.04	B o	19 33 55.937	+3.2269	0	− 7 9 4.75	+ 7.985	− 4
738	ϑ Cygni	4.64	F 5	19 34 57.919	+1.6077	− 30	+50 5 34.35	+ 8.324	+ 254
1512	[54 Sagittarii]	5.45	K o	19 37 34.372	+3.4364	+ 46	−16 25 15.25	+ 8.235	− 45
1513	[β Sagittae]	4.45	K o	19 38 34.650	+2.6941	+ 2	+17 20 50.18	+ 8.325	− 34
1514	[55 Sagittarii]	5.10	F o	19 39 22.404	+3.4308	+ 42	−16 15 16.17	+ 8.412	− 11
1515	[10 Vulpeculae]	5.45	G 5	19 41 25.619	+2.4941	+ 4	+25 38 20.79	+ 8.605	+ 20
740	15 Cygni	5.02	K o	19 42 17.482	+2.1632	+ 56	+37 13 13.51	+ 8.687	+ 34
1516	[228 G. Sagittar.]	5.56	B 8	19 42 30.814	+3.8273	+ 2	−32 2 34.70	+ 8.652	− 19
1517	[56 Sagittarii]	5.06	K o	19 43 9.295	+3.4990	− 95	−19 53 41.80	+ 8.635	− 87
739	[ν Telescopii]	5.52	A 5	19 43 32.240	+4.8991	+ 102	−56 29 48.69	+ 8.624	− 129
741	γ Aquilae	2.80	K 2	19 43 38.644	+2.8517	+ 8	+10 28 40.61	+ 8.763	+ 3
743	δ Sagittae	3.78	M o + A o	19 44 56.048	+2.6747	+ 2	+18 23 50.35	+ 8.873	+ 12
744	[51 Aquilae]	5.55	F o	19 47 45.271	+3.3007	− 19	−10 54 16.46	+ 9.117	+ 35
745	α Aquilae	0.89	A 5	19 48 5.951	+2.9265	+ 360	+ 8 43 18.23	+ 9.496	+ 387
746	[η Aquilae]	3.7–4.4	G o p	19 49 40.244	+3.0556	+ 3	+ 0 51 47.16	+ 9.227	− 4
1518	[75 G. Pavonis]	6.32	A 3	19 49 53.215	+5.2410	+ 13	−61 18 54.42	+ 9.259	+ 9
1519	[90 G. Aquilae]	5.64	F o p + A	19 50 25.895	+3.1420	+ 14	− 3 15 29.97	+ 9.306	+ 16
1520	[ι Sagittarii]	4.21	K o	19 51 28.266	+4.1379	+ 7	−42 0 52.67	+ 9.427	+ 56
749	β Aquilae	3.90	K o	19 52 36.645	+2.9464	+ 26	+ 6 16 4.97	+ 8.981	− 478
1521	[η Cygni]	4.03	K o	19 54 14.477	+2.2504	− 30	+34 56 10.43	+ 9.556	− 27
748	ε Pavonis	4.10	A o	19 54 16.096	+6.9439	+ 190	−73 3 31.17	+ 9.457	− 130
1522	[61 Sagittarii]	5.05	A o	19 54 49.913	+3.4019	+ 7	−15 38 19.98	+ 9.534	− 96
751	ϑ¹ Sagittarii	4.39	B 3	19 56 9.576	+3.9040	0	−35 25 36.07	+ 9.707	− 25
752	γ Sagittae	3.71	K 5	19 56 18.587	+2.6675	+ 42	+19 20 29.70	+ 9.770	+ 28
1523	[15 Vulpeculae]	4.74	A 5	19 58 50.042	+2.4704	+ 40	+27 36 1.74	+ 9.945	+ 10
753	[62 Sagittarii]	4.60	M 3	19 59 16.727	+3.6887	+ 27	−27 51 51.60	+ 9.989	+ 20
1524	[τ Aquilae]	5.65	K o	20 1 27.084	+2.9296	+ 5	+ 7 7 17.19	+10.149	+ 16
755	[ξ Telescopii]	4.86	M o	20 3 10.856	+4.5969	− 15	−53 2 24.54	+10.276	+ 12
754	δ Pavonis	3.64	G 5	20 3 20.974	+5.8867	+1974	−66 19 29.06	+ 9.137	−1140
1525	[28 Cygni]	4.82	B 2 p	20 7 22.950	+2.2276	− 2	+36 40 36.09	+10.592	+ 15
756	ϑ Aquilae	3.37	A o	20 8 28.015	+3.0948	+ 22	− 0 59 9.51	+10.664	+ 6
759	κ Cephei	4.43	B 9	20 10 46.640	−2.0174	+ 22	+77 32 48.26	+10.853	+ 28

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
1526	[ρ Aquilae]	4.96	A 0	20 11 43.857	+2.7757	+ 36	+15 1 43.38	+10.953	+ 55
757	31 o¹ Cygni	3.95	K 0 + B 8	20 11 53.896	+1.8886	− 3	+46 34 25.34	+10.916	+ 6
758	33 Cygni	4.32	A 3	20 12 7.170	+1.3943	+ 72	+56 23 55.84	+11.009	+ 83
760	24 Vulpeculae	5.45	K 0	20 14 25.786	+2.5669	+ 9	+24 30 2.08	+11.081	− 14
1527	[α¹ Capricorni]	4.55	G 0 p	20 14 36.014	+3.3245	+ 11	−12 40 46.59	+11.112	+ 3
1529	[4 Capricorni]	5.96	K 0	20 14 47.638	+3.5241	+ 23	−21 58 53.17	+11.093	− 29
1528	[83 G. Telescopii]	6.28	M 0	20 14 59.710	+4.3024	+ 6	−47 52 58.76	+11.143	+ 5
761	α² Capricorni	3.77	G 5	20 15 0.236	+3.3279	+ 41	−12 43 0.28	+11.143	+ 6
1530	[290 G. Sagittarii]	6.51	K 2	20 17 19.006	+3.8717	+ 14	−35 50 54.93	+11.333	+ 28
762	[β Capricorni]	3.25	G 0 + A 0	20 17 55.346	+3.3700	+ 26	−14 57 23.44	+11.352	+ 3
763	[ϰ¹ Sagittarii]	5.64	A 0	20 18 43.793	+4.0734	+ 32	−42 13 28.38	+11.319	− 88
765	γ Cygni	2.32	F 8 p	20 20 15.170	+2.1529	0	+40 4 46.91	+11.517	+ 1
1531	[132 G. Aquilae]	5.41	K 0	20 20 27.135	+2.9718	− 25	+ 5 9 57.47	+11.495	− 35
764	α Pavonis	2.12	B 3	20 21 18.525	+4.7471	+ 11	−56 54 47.46	+11.510	− 82
1532	[296 G. Sagittarii]	5.97	K 0	20 22 4.959	+3.6728	+ 8	−28 50 34.92	+11.666	+ 19
1533	[69 Aquilae]	5.11	K 0	20 26 46.532	+3.1350	+ 44	− 3 4 10.87	+11.964	− 15
1534	[41 Cygni]	4.09	F 5 p	20 27 8.798	+2.4509	+ 2	+30 11 2.12	+12.001	− 3
1535	42 Cygni	5.94	A 0	20 27 14.420	+2.2883	+ 1	+36 16 12.67	+12.012	+ 2
767	ϑ Cephei	4.28	A 5	20 28 39.656	+1.0064	+ 60	+62 48 31.82	+12.098	− 11
1536	[29 G. Capricorni]	5.82	G 5	20 29 23.187	+3.2815	+202	−10 2 32.66	+12.263	+102
1538	[Grb 3241 Draco]	6.42	K 2	20 30 15.714	−0.2564	− 14	+72 20 44.00	+12.203	− 16
768	ε Delphini	3.98	B 5	20 30 35.064	+2.8657	+ 4	+11 6 54.70	+12.226	− 17
1537	[9 G. Delphini]	6.68	K 0	20 31 15.629	+2.9868	+ 6	+ 4 42 34.55	+12.284	− 6
770	73 Draconis	5.18	A 2 p	20 32 15.327	−0.7895	+ 10	+74 45 59.40	+12.345	− 11
769	α Indi	3.21	K 0	20 33 42.402	+4.2197	+ 50	−47 29 5.46	+12.531	+ 72
1539	29 Vulpeculae	4.78	A 0	20 36 3.834	+2.6790	+ 44	+21 0 25.45	+12.627	+ 7
772	[ϰ Delphini]	5.23	G 5	20 36 27.419	+2.9134	+210	+ 9 53 28.54	+12.667	+ 21
1540	[13 G. Microscopii]	5.54	K 2	20 36 53.098	+3.7641	+ 26	−33 37 39.80	+12.726	+ 50
773	υ Capricorni	5.33	M 0	20 36 55.235	+3.4146	− 15	−18 20 1.17	+12.660	− 18
774	α Delphini	3.86	B 8	20 37 4.934	+2.7862	+ 41	+15 43 0.87	+12.690	+ 1
777	α Cygni	1.33	A 2 p	20 39 33.321	+2.0449	0	+45 4 58.76	+12.859	+ 5
776	[η Indi]	4.70	F 0	20 40 0.653	+4.4058	+172	−52 7 8.75	+12.832	− 54
775	β Pavonis	3.60	A 5	20 40 1.633	+5.4092	− 64	−66 24 9.91	+12.905	+ 18
778	[δ Delphini]	4.53	A 5	20 40 53.404	+2.8005	− 16	+14 52 34.19	+12.904	− 40
779	[ψ Capricorni]	4.26	F 8	20 42 50.526	+3.5516	− 40	−25 28 11.76	+12.920	−155
780	ε Cygni	2.64	K 0	20 43 59.035	+2.4273	+283	+33 45 47.84	+13.479	+330
782	[6 H. Cephei]	4.63	G 0	20 43 59.187	+1.4886	− 87	+57 22 54.44	+12.916	−234
1541	[γ Delphini sq]	4.49	G 5	20 44 6.312	+2.7828	− 28	+15 55 29.99	+12.965	−193
783	η Cephei	3.59	K 0	20 44 10.400	+1.2202	+129	+61 37 29.01	+13.983	+822
781	ε Aquarii	3.83	A 0	20 44 41.976	+3.2470	+ 20	− 9 41 54.07	+13.166	− 31

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		m		h m s	s		° ' "	"	
1544	[Grb 3285 Cygn]	6.43	K o	20 44 45.441	+1.7390	— 97	+52 47 39.71	+13.094	— 106
1542	[ι Microscopii]	5.14	F o	20 44 45.831	+4.0672	+ 167	—44 11 25.63	+13.100	— 102
1543	[3 Aquarii]	4.60	M o	20 44 50.144	+3.1649	— 3	— 5 13 49.13	+13.170	— 37
1545	[—1° 4057 Aqar]	6.53	M 3	20 46 27.537	+3.0841	— 24	— 0 46 3.68	+13.301	— 12
1546	[ω Capricorni]	4.24	M o	20 48 32.548	+3.5800	— 7	—27 7 34.67	+13.446	— 2
1547	[μ Aquarii]	4.80	A 3	20 49 41.294	+3.2353	+ 26	— 9 11 27.28	+13.495	— 28
785	β Indi	3.72	K o	20 50 31.609	+4.6896	+ 23	—58 39 47.86	+13.558	— 19
786	32 Vulpeculae	5.24	K 5	20 52 12.844	+2.5568	— 6	+27 50 50.89	+13.686	+ 2
1548	[64 G. Capricor.]	5.95	A 3	20 54 35.985	+3.3579	+ 31	—16 14 40.25	+13.837	0
788	ν Cygni	4.04	A o	20 55 7.234	+2.2364	+ 5	+40 57 16.66	+13.859	— 9
1549	[33 Vulpeculae]	5.57	K 5	20 55 48.715	+2.6818	— 6	+22 6 44.36	+13.919	+ 6
789	[11 Aquarii]	6.26	G o	20 57 40.074	+3.1583	+ 26	— 4 56 37.82	+13.898	— 132
1550	[γ Microscopii]	4.71	G 5	20 57 55.331	+3.6798	0	—32 28 26.69	+14.051	+ 6
1551	[59 Cygni]	4.88	B o p	20 57 57.193	+2.0400	0	+47 18 19.81	+14.052	+ 5
787	[α Octantis]	5.24	F 2	20 58 7.728	+7.2793	+ 31	—77 14 9.67	+13.696	— 362
790	ζ Microscopii	5.35	F o	20 59 27.445	+3.8333	— 25	—38 50 51.25	+14.031	— 109
1552	[ϑ Capricorni]	4.19	A o	21 2 51.455	+3.3722	+ 57	—17 27 9.25	+14.296	— 54
792	[ξ Cygni]	3.92	K 5	21 2 55.685	+2.1820	+ 4	+43 42 27.53	+14.358	+ 5
1553	[—0° 4161 Aqar]	7.10	K 2	21 3 44.034	+3.0791	+ 6	— 0 19 34.79	+14.418	+ 15
791	[A Capricorni]	4.60	M o	21 3 54.843	+3.5085	— 21	—25 13 37.12	+14.371	— 43
793	61 Cygni *pr*	5.57	K 5	21 4 25.684	+2.6873	+3504	+38 28 40.72	+17.705	+3260
794	ν Aquarii	4.52	K o	21 6 35.965	+3.2674	+ 61	—11 35 43.98	+14.564	— 12
795	Br 2777 Ceph	5.90	B 9	21 6 38.007	—1.2010	+ 60	+77 54 13.84	+14.612	+ 36
1555	[γ Equulei]	4.76	F o p	21 7 39.990	+2.9175	+ 38	+ 9 54 32.34	+14.489	— 151
1554	[ο Pavonis]	5.08	M o	21 8 13.156	+5.6308	+ 86	—70 21 9.45	+14.643	— 32
1556	[58 G. Microscopii]	5.55	K 5	21 10 1.882	+3.5572	+ 73	—27 50 41.71	+14.665	— 116
797	ζ Cygni	3.40	K o	21 10 35.591	+2.5531	— 4	+30 0 1.65	+14.760	— 53
796	[23 G. Indi]	5.84	A 5	21 11 50.814	+4.2835	+ 18	—53 29 31.42	+14.877	— 11
800	α Equulei	4.14	F 8 + A 3	21 13 4.443	+2.9986	+ 36	+ 5 1 9.97	+14.876	— 83
1557	[24 G. Indi]	6.70	K o	21 14 8.340	+4.0865	— 24	—48 56 53.11	+14.943	— 79
801	[ε Microscopii]	4.79	A o	21 14 36.433	+3.6373	+ 39	—32 24 12.75	+15.027	— 21
1558	[σ Cygni]	4.28	A o p	21 15 15.176	+2.3561	— 4	+39 9 47.99	+15.082	— 2
1559	[υ Cygni]	4.42	B 3 p	21 15 39.224	+2.4666	+ 6	+34 39 54.26	+15.106	— 2
802	[ϑ¹ Microscopii]	4.92	A 2 p	21 17 14.943	+3.8370	+ 56	—41 2 35.81	+15.199	— 1
803	α Cephei	2.60	A 5	21 17 16.014	+1.4316	+ 212	+62 21 7.47	+15.251	+ 52
1560	[Grb 3434 Cygn]	6.81	K 2	21 17 54.525	+1.9290	+ 6	+52 49 28.49	+15.237	0
1561	[ι Capricorni]	4.30	K o	21 19 11.183	+3.3401	+ 22	—17 4 11.68	+15.316	+ 6
804	1 Pegasi	4.27	K o	21 19 32.475	+2.7744	+ 72	+19 34 5.81	+15.397	+ 68
1562	[18 Aquarii]	5.54	A 5	21 21 11.257	+3.2780	+ 60	—13 6 54.66	+15.432	+ 11
805	γ Pavonis	4.30	F 8	21 21 55.385	+4.9639	+ 154	—65 37 0.02	+16.262	+ 799

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		m		h m s	s		° ′ ″	″	
1563	[γ Indi]	6.24	F 0	21 22 20.850	+4.2808	+ 8	−54 53 57.52	+15.533	+ 46
806	ζ Capricorni	3.86	G 5 p	21 23 31.812	+3.4250	+ 1	−22 39 2.34	+15.579	+ 27
1564	[2 G. Pegasi]	6.66	M 0	21 25 42.115	+2.9571	+ 4	+ 7 57 19.33	+15.638	− 32
807	[71 Cygni]	5.34	K 0	21 27 25.015	+2.2138	+ 42	+46 17 50.58	+15.872	+ 108
1565	[2 Pegasi]	4.76	K 5	21 27 27.260	+2.7174	+ 13	+23 23 48.73	+15.772	+ 6
809	β Cephei	3.33	B 1	21 27 57.476	+0.7745	+ 21	+70 19 8.86	+15.806	+ 13
808	β Aquarii	3.07	G 0	21 28 39.858	+3.1578	+ 12	− 5 48 50.84	+15.827	− 4
1566	[6 Piscis austr.]	5.99	A 2	21 28 55.309	+3.6295	+ 6	−34 11 17.09	+15.842	− 3
1567	[3 G. Gruis]	5.73	K 0	21 29 50.162	+3.8880	− 18	−45 5 34.61	+15.890	− 4
1568	[ρ Cygni]	4.22	K 0	21 31 54.560	+2.2563	− 25	+45 20 52.80	+15.914	− 90
811	74 Cygni	5.09	A 5	21 34 44.484	+2.4046	− 7	+40 9 56.80	+16.170	+ 19
1569	[ξ Aquarii]	4.78	A 5	21 34 49.486	+3.1932	+ 74	− 8 6 6.62	+16.134	− 22
1570	[5 Pegasi]	5.29	F 0	21 35 10.903	+2.8073	+ 70	+19 4 12.93	+16.190	+ 16
810	ν Octantis	3.74	K 0	21 35 26.545	+6.6848	+ 185	−77 38 10.04	+15.949	− 240
812	[γ Capricorni]	3.80	F 0 p	21 37 2.753	+3.3235	+ 131	−16 54 42.40	+16.248	− 22
813	[13 H. Cephei]	5.97	O e 5	21 37 15.088	+1.8612	− 7	+57 14 23.22	+16.280	0
817	[11 Cephei]	4.85	K 0	21 41 7.336	+0.8789	+ 235	+71 3 28.86	+16.580	+ 105
815	ε Pegasi	2.54	K 0	21 41 29.022	+2.9462	+ 18	+ 9 37 19.13	+16.498	+ 5
814	[ι Piscis austr.]	4.35	A 0	21 41 40.559	+3.5737	+ 29	−33 16 39.96	+16.412	− 91
1571	[+35°4626 Cygn]	6.60	K 0	21 43 24.417	+2.5437	+ 75	+35 36 10.43	+16.605	+ 17
818	[λ Capricorni]	5.43	A 0	21 43 34.539	+3.2289	+ 17	−11 37 13.79	+16.592	− 4
1572	[ν Cephei]	4.46	A 2 p	21 43 51.618	+1.7307	− 7	+60 51 59.48	+16.612	+ 2
819	δ Capricorni	2.98	A 5	21 44 0.436	+3.3108	+ 181	−16 22 40.11	+16.325	− 293
1574	[11 Pegasi]	5.50	A 0	21 44 26.607	+3.0420	+ 5	+ 2 25 51.43	+16.644	+ 5
1573	[13 G. Gruis]	5.75	G 5	21 44 41.666	+3.9021	+ 159	−47 33 17.68	+16.357	− 295
821	π^2 Cygni	4.26	B 3	21 44 45.489	+2.2165	+ 2	+49 3 15.99	+16.656	+ 2
820	[o Indi]	5.50	K 2	21 46 10.141	+5.0795	− 44	−69 53 12.25	+16.721	− 3
1575	[14 Pegasi]	5.00	A 0	21 47 24.524	+2.6538	+ 10	+29 55 2.49	+16.759	− 23
1576	[127 G. Capricor.]	6.85	F 8	21 48 17.003	+3.4147	+ 253	−23 31 39.08	+16.740	− 84
1577	[μ Capricorni]	5.18	F 0	21 50 17.949	+3.2704	+ 211	−13 48 41.74	+16.933	+ 14
823	16 Pegasi	5.05	B 3	21 50 33.425	+2.7297	+ 2	+25 39 56.22	+16.934	+ 3
822	γ Gruis	3.16	B 8	21 50 36.272	+3.6326	+ 85	−37 37 27.95	+16.921	− 13
1578	[Br 2880 Ceph]	6.58	A 0	21 52 8.914	+0.7017	+ 79	+73 26 31.20	+17.035	+ 31
1579	[Pi 21h 339 Pegs]	6.62	K 5	21 53 49.528	+2.8048	− 3	+20 58 39.81	+17.101	+ 19
824	[δ Indi]	4.56	F 0	21 54 11.351	+4.0844	+ 63	−55 15 18.41	+17.096	− 3
1580	[98 G. Aquarii]	6.42	K 0	21 56 2.889	+3.1285	− 4	− 4 37 58.11	+16.930	− 254
826	[20 Pegasi]	5.66	F 2	21 58 24.475	+2.9224	+ 35	+12 51 20.74	+17.243	− 46
825	[ε Indi]	4.74	K 5	21 59 10.071	+4.5894	+4808	−57 0 47.27	+14.771	−2552
1581	[λ Gruis]	4.60	K 2	22 2 48.407	+3.6162	− 18	−39 48 34.50	+17.366	− 114
827	α Aquarii	3.19	G 0	22 2 57.541	+3.0809	+ 10	− 0 35 16.03	+17.483	− 4

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		m		h m s	s		° ′ ″	″	
830	20 Cephei	5.39	K 5	22 3 20.041	+1.8235	+ 21	+62 31 0.88	+17.566	+ 64
828	ι Aquarii	4.35	B 8	22 3 28.105	+3.2396	+ 26	−14 8 14.33	+17.456	− 53
831	[ι Pegasi]	3.96	F 5	22 4 26.863	+2.7927	+215	+25 4 32.84	+17.578	+ 28
829	α Gruis	2.16	B 5	22 4 46.550	+3.7812	+123	−47 13 41.56	+17.417	−147
832	[μ Piscis austr.]	4.62	A 2	22 5 10.790	+3.5003	+ 64	−33 15 28.17	+17.544	− 37
833	[27 Pegasi]	5.65	K o	22 6 47.204	+2.6584	− 49	+32 54 10.82	+17.585	− 63
834	ϑ Pegasi	3.70	A 2	22 7 25.465	+3.0259	+181	+ 5 55 35.84	+17.711	+ 37
835	π Pegasi	4.38	F 5	22 7 32.476	+2.6645	− 13	+32 54 27.69	+17.662	− 17
837	24 Cephei	4.99	G 5	22 8 45.233	+1.1526	+ 63	+72 4 12.52	+17.742	+ 14
836	ζ Cephei	3.62	K o	22 8 56.525	+2.0812	+ 14	+57 55 46.78	+17.744	+ 8
838	[λ Piscis austr.]	5.40	B 9	22 11 11.958	+3.4004	+ 20	−28 2 25.38	+17.827	o
1583	[1 H. Lacertae]	4.64	K 2	22 11 30.846	+2.5754	+ 33	+39 26 29.03	+17.851	+ 11
1582	[125 G. Aquarii]	6.60	G 5	22 11 39.629	+3.2478	− 8	−16 5 12.03	+17.494	−352
840	ϑ Aquarii	4.32	K o	22 13 55.938	+3.1654	+ 78	− 8 3 28.38	+17.917	− 19
839	[ε Octantis]	5.11	M 3	22 13 59.259	+6.7480	+304	−80 42 53.62	+17.904	− 34
841	α Tucanae	2.91	K 2	22 14 45.138	+4.1128	− 83	−60 32 4.47	+17.933	− 34
1584	[47 Aquarii]	5.40	K o	22 18 34.099	+3.3024	− 5	−21 52 28.67	+18.029	− 84
843	[31 Pegasi]	4.93	B 3 p	22 18 48.539	+2.9528	+ 2	+11 55 39.20	+18.139	+ 17
842	γ Aquarii	3.97	A o	22 18 48.930	+3.0983	+ 85	− 1 39 54.49	+18.134	+ 13
844	β Lacertae	4.58	K o	22 21 23.521	+2.3592	− 19	+51 57 10.70	+18.032	−185
1585	[π Aquarii]	4.64	B 1 p	22 22 28.061	+3.0636	+ 10	+ 1 5 51.48	+18.261	+ 4
1586	[Pi 22h 97 Pegs]	6.40	K o	22 23 1.284	+2.8945	+ 13	+18 9 50.50	+18.315	+ 39
1587	[72 G. Indi]	5.70	A 3	22 24 36.336	+4.4220	+277	−67 46 8.98	+18.268	− 65
845	[ν Gruis]	5.48	K o	22 25 26.163	+3.5165	+ 31	−39 24 38.60	+18.205	−156
846	[δ¹ Gruis]	4.02	G 5	22 25 59.400	+3.5860	+ 24	−43 46 38.10	+18.383	+ 2
1588	[36 Pegasi]	5.82	K 2	22 26 23.213	+2.9942	+ 36	+ 8 50 51.35	+18.380	− 15
1589	[Pi 22h 120 Pegs]	5.96	K 2	22 26 35.394	+2.8109	+ 15	+26 28 53.05	+18.397	− 5
847	[δ Cephei]	3.7-4.4	G o v	22 27 7.383	+2.2270	+ 11	+58 7 59.50	+18.423	+ 3
1590	[38 Pegasi]	5.51	A o	22 27 30.643	+2.7441	+ 25	+32 17 26.03	+18.422	− 12
1591	[σ Aquarii]	4.89	A o	22 27 44.251	+3.1745	o	−10 57 36.24	+18.415	− 27
1592	[β Piscis austr.]	4.40	A o	22 28 23.011	+3.4113	+ 53	−32 37 43.03	+18.458	− 6
848	α Lacertae	3.85	A o	22 29 1.202	+2.4716	+139	+49 59 57.40	+18.507	+ 22
1593	[ρ Cephei]	5.50	A 2	22 29 24.710	+0.5330	− 13	+78 32 31.07	+18.483	− 14
1594	[Grb 3834 Ceph]	5.74	A o	22 31 18.676	+1.0521	− 69	+75 56 34.31	+18.559	− 2
849	[υ Aquarii]	5.29	F 5	22 31 41.268	+3.2814	+155	−20 59 26.20	+18.431	−143
850	η Aquarii	4.13	B 8	22 32 31.797	+3.0826	+ 60	− 0 24 5.52	+18.551	− 50
851	31 Cephei	5.22	F o	22 34 24.560	+1.4813	+390	+73 21 26.94	+18.692	+ 31
1595	[κ Aquarii]	5.33	K o	22 34 54.489	+3.1067	− 48	− 4 30 44.14	+18.566	−112
853	[30 Cephei]	5.21	A 2	22 36 41.592	+2.1276	− 12	+63 17 53.52	+18.714	− 20
852	10 Lacertae	4.91	O e 5	22 36 47.319	+2.6921	− 1	+38 45 48.63	+18.734	− 3
854	[ε Piscis austr.]	4.22	B 8	22 37 37.043	+3.3181	+ 21	−27 19 51.60	+18.768	+ 6

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.ˢ0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
855	ζ Pegasi	3.61	B 8	22 38 43.040	+2.9921	+ 53	+10 32 37.46	+18.789	− 7
856	β Gruis	2.24	M 3	22 39 23.517	+3.5829	+ 133	−47 10 22.10	+18.814	− 3
857	η Pegasi	3.10	G 0	22 40 25.206	+2.8123	+ 9	+29 55 59.24	+18.825	− 22
858	[13 Lacertae]	5.24	K 0	22 41 37.993	+2.6755	− 10	+41 31 48.79	+18.894	+ 11
1596	[45 Pegasi]	6.45	K 0	22 42 47.452	+2.9181	− 24	+19 4 34.07	+18.980	+ 63
859	λ Pegasi	4.14	K 0	22 43 52.718	+2.8897	+ 39	+23 16 32.67	+18.942	− 6
1597	[68 Aquarii]	5.43	G 5	22 44 36.016	+3.2221	− 73	−19 54 2.61	+18.771	−198
1598	[−2° 5826 Aqar]	7.58	K 2	22 44 39.839	+3.0891	+ 3	− 2 4 44.28	+18.973	+ 3
860	ε Gruis	3.69	A 2	22 45 14.559	+3.6244	+ 111	−51 36 23.63	+18.928	− 59
861	[τ Aquarii]	4.21	K 5	22 46 40.871	+3.1760	− 10	−13 53 0.09	+18.996	− 31
862	[μ Pegasi]	3.67	K 0	22 47 20.715	+2.8957	+ 107	+24 18 38.71	+19.009	− 36
863	ι Cephei	3.68	K 0	22 47 42.914	+2.1349	− 113	+65 54 39.16	+18.937	−118
1599	69 G. Gruis	5.39	K 2	22 47 54.691	+3.4150	+ 18	−39 26 55.04	+19.054	− 7
864	λ Aquarii	3.84	M 0	22 49 44.733	+3.1294	+ 5	− 7 52 21.94	+19.149	+ 40
865	ρ Indi	6.14	G 0	22 50 51.783	+4.1781	− 73	−70 22 5.10	+19.213	+ 74
866	δ Aquarii	3.51	A 2	22 51 43.987	+3.1835	− 29	−16 6 49.62	+19.140	− 20
1600	[+36° 4956 Lacr]	6.00	F 2	22 52 28.873	+2.7902	+ 70	+36 46 59.76	+19.195	+ 15
867	α Piscis austr.	1.29	A 3	22 54 36.956	+3.3153	+ 258	−29 54 51.07	+19.074	−159
868	[ζ Gruis]	4.18	G 5	22 57 38.607	+3.5430	− 74	−53 2 58.16	+19.302	− 4
869	ο Andromedae	3.63	B 5 +A 2 p	22 59 23.079	+2.7603	+ 18	+42 1 48.52	+19.348	+ 2
1601	[π Piscis austr.]	5.13	F 0	23 0 27.464	+3.3191	+ 53	−35 2 49.80	+19.460	+ 89
1602	[β Piscium]	4.58	B 5 p	23 1 4.601	+3.0529	+ 6	+ 3 31 24.92	+19.382	− 3
870	β Pegasi	2.61	M 0	23 1 6.232	+2.9085	+ 141	+27 47 2.88	+19.529	+143
871	α Pegasi	2.57	A 0	23 2 1.121	+2.9883	+ 42	+14 54 32.30	+19.369	− 36
1603	[55 Pegasi]	4.69	M 0	23 4 13.910	+3.0220	+ 5	+ 9 6 43.32	+19.445	− 8
1604	[5 Andromedae]	5.83	F 0	23 5 15.046	+2.7248	+ 152	+48 59 45.35	+19.614	+139
873	88 Aquarii	3.80	K 0	23 6 30.988	+3.1985	+ 39	−21 28 16.50	+19.540	+ 40
1605	[ι Gruis]	4.10	K 0	23 7 15.166	+3.3961	+ 124	−45 32 41.64	+19.497	− 18
1606	[59 Pegasi]	5.15	A 3	23 8 57.466	+3.0288	− 7	+ 8 25 15.96	+19.548	− 1
875	Br 3077 Cass	5.65	K 2	23 10 37.415	+2.8882	+2524	+56 51 52.04	+19.880	+300
1607	[φ Aquarii]	4.40	M 0	23 11 28.438	+3.1068	+ 24	− 6 20 44.88	+19.405	−190
1608	[ψ¹ Aquarii]	4.48	K 0	23 13 0.639	+3.1432	+ 251	− 9 23 15.73	+19.613	− 11
876	[25 G. Tucanae]	5.69	G 0	23 13 40.215	+3.6091	+ 252	−62 18 4.82	+19.611	− 24
877	γ Tucanae	4.10	F 2	23 14 13.940	+3.5023	− 38	−58 32 14.90	+19.739	+ 94
878	γ Piscium	3.85	K 0	23 14 18.781	+3.1100	+ 506	+ 2 58 53.42	+19.671	+ 24
879	γ Sculptoris	4.51	K 0	23 15 51.507	+3.2399	+ 17	−32 49 54.70	+19.612	− 60
1609	[ψ³ Aquarii]	5.16	A 0	23 16 6.050	+3.1206	+ 30	− 9 54 42.09	+19.681	+ 4
880	τ Pegasi	4.65	A 5	23 17 54.655	+2.9696	+ 21	+23 26 20.65	+19.704	− 2
1610	[12 Andromedae]	5.75	F 5	23 18 13.597	+2.8951	+ 103	+37 52 54.21	+19.646	− 66
1611	[11 G.Sculptoris]	5.81	G 5	23 18 19.861	+3.1968	− 10	−27 17 17.74	+19.701	− 12
1612	[98 Aquarii]	4.20	K 0	23 20 5.023	+3.1505	− 87	−20 24 3.72	+19.652	− 88

Mittlere Sternörter 1945.0

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s0001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
1613	[67 Pegasi]	5.46	A 0	23 22 8.969	+2.9364	+ 8	+32 4 57.02	+19.775	+ 4
882	4 Cassiopeiae	5.20	K 5	23 22 22.992	+2.6639	+ 7	+61 58 50.54	+19.768	− 6
881	[υ Pegasi]	4.57	G 0	23 22 37.819	+2.9944	+137	+23 6 4.02	+19.819	+ 42
883	[ο Gruis]	5.54	F 0	23 23 32.404	+3.3567	+ 25	−53 1 34.55	+19.923	+133
884	ϰ Piscium	4.94	A 2 p	23 24 6.705	+3.0753	+ 56	+ 0 57 15.48	+19.708	− 90
1614	[ϑ Piscium]	4.45	G 5	23 25 10.586	+3.0433	− 84	+ 6 4 35.95	+19.773	− 39
1615	[+15° 4830 Pegs]	6.98	A 2	23 26 16.035	+3.0182	+ 1	+15 42 33.94	+19.836	+ 9
885	70 Pegasi	4.67	K 0	23 26 22.235	+3.0342	+ 42	+12 27 25.30	+19.867	+ 39
886	[β Sculptoris]	4.46	B 9	23 30 1.603	+3.2171	+ 73	−38 7 21.74	+19.893	+ 21
1616	[15 Andromedae]	5.50	A 0	23 31 55.702	+2.9351	− 15	+39 55 59.15	+19.855	− 38
1617	[ι Phoenicis]	4.80	A 2 p	23 32 7.356	+3.2273	+ 35	−42 55 9.63	+19.903	+ 8
888	248 G. Aquarii	6.51	K 0	23 32 41.824	+3.0946	− 3	− 7 46 8.21	+19.926	+ 25
890	λ Andromedae	4.00	K 0	23 34 51.830	+2.9362	+152	+46 9 36.31	+19.507	−416
889	[11 G. Phoenicis]	4.86	A 2	23 34 53.723	+3.2296	+ 64	−45 47 48.46	+19.918	− 5
891	ι Andromedae	4.28	B 8	23 35 25.888	+2.9425	+ 23	+42 57 48.51	+19.930	+ 3
893	γ Cephei	3.42	K 0	23 37 4.152	+2.4587	−214	+77 19 31.37	+20.100	+157
892	ι Piscium	4.28	F 8	23 37 7.170	+3.0857	+250	+ 5 19 41.04	+19.512	−432
1619	[ϰ Andromedae]	4.33	A 0	23 37 41.480	+2.9551	+ 73	+44 1 45.49	+19.933	− 15
1618	[μ Sculptoris	5.33	K 0	23 37 45.197	+3.1478	− 74	−32 22 38.37	+19.900	− 49
1620	[λ Piscium]	4.61	A 5	23 39 14.326	+3.0613	− 88	+ 1 28 38.42	+19.818	−143
894	ω² Aquarii	4.62	A 0	23 39 52.250	+3.1108	+ 66	−14 50 57.03	+19.902	− 64
1621	[106 Aquarii]	5.26	B 8	23 41 20.998	+3.1116	+ 19	−18 34 56.06	+19.983	+ 6
1622	[ψ Andromedae]	5.09	K 0 + A 5	23 43 18.002	+2.9728	+ 6	+46 6 53.57	+19.989	− 1
1623	[20 Piscium]	5.60	K 0	23 45 6.831	+3.0838	+ 60	− 3 4 2.59	+20.012	+ 12
895	41 H. Cephei	5.02	A 0	23 45 15.896	+2.8677	+ 13	+67 30 4.28	+20.005	+ 3
896	δ Sculptoris	4.64	A 0	23 46 3.847	+3.1251	+ 81	−28 26 4.13	+19.906	−100
1624	[Pi 23h 194 Aqar]	7.14	K 0	23 46 35.319	+3.1043	− 3	−21 55 11.93	+20.021	+ 12
897	[268 G. Aquarii]	6.08	K 0	23 47 24.442	+3.0957	+ 92	−10 16 52.62	+20.091	+ 79
898	φ Pegasi	5.23	M 0	23 49 41.164	+3.0523	− 5	+18 48 53.37	+19.992	− 30
1625	[82 Pegasi]	5.39	A 3	23 49 48.632	+3.0604	− 16	+10 38 28.77	+20.030	+ 7
899	ρ Cassiopeiae	4.4–5.1	F 8 p	23 51 37.423	+2.9970	− 7	+57 11 36.42	+20.034	+ 5
1626	[27 G. Phoenicis]	6.01	F 8	23 51 45.845	+3.1462	+320	−40 36 24.08	+20.064	+ 34
1627	[Grb 4163 Ceph]	6.57	B 9	23 52 7.546	+2.9099	− 26	+74 6 15.06	+20.030	− 1
1628	[Pi 23h 235 Pegs]	6.30	M 0	23 53 53.091	+3.0570	− 16	+22 20 31.49	+20.040	+ 4
1629	[ψ Pegasi]	4.75	M 0	23 54 57.082	+3.0569	− 27	+24 50 8.71	+20.013	− 25
900	27 Piscium	5.07	K 0	23 55 51.410	+3.0716	− 33	− 3 51 39.99	+19.974	− 66
901	[π Phoenicis]	5.14	K 0	23 56 5.211	+3.1089	+ 56	−53 3 10.87	+20.109	+ 69
902	ω Piscium	4.03	F 5	23 56 29.090	+3.0810	+101	+ 6 33 31.78	+19.932	−108
903	ε Tucanae	4.71	B 9	23 57 4.382	+3.1200	+ 89	−65 52 59.08	+20.023	− 19
904	[ϑ Octantis]	4.73	K 0	23 58 47.936	+3.0886	−151	−77 22 9.03	+19.883	−160
1630	[30 Piscium]	4.66	M 3	23 59 8.339	+3.0771	+ 34	− 6 19 10.80	+20.010	− 33

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Verände-rung 1945.5	Jährl. Eigen-bew. in 0.s001	Dekl. 1945.0	Jährl. Verände-rung 1945.5	Jährl. Eigen-bew. in 0."001

Nördliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung	Jährl. Eigenbew.	Dekl. 1945.0	Jährl. Veränderung	Jährl. Eigenbew.
		m		h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.52	K 0	1 0 50.01	+ 8.126	+ 77	+85 57 47.62	+19.333	− 6
Nb	α Ursae min.	2.12*	F 8 v	1 45 36.89	+37.605	+174	+89 0 14.29	+17.934	− 5
Nα	[Br 256 Ceph]	6.86	K 0	2 8 6.14	+ 9.155	+ 39	+83 18 19.95	+16.949	− 41
Nβ	[Br 402 Ceph]	5.78	K 0	3 18 55.32	+14.175	+ 57	+84 43 19.58	+12.818	−129
Nc	Grb 750 Ceph	6.70	F 8	4 18 22.94	+18.120	+ 18	+85 24 20.47	+ 8.615	+ 28
Nγ	[+85° 74 Ceph]	6.54	A 5	5 12 3.53	+21.288	+ 24	+85 53 20.35	+ 4.067	− 81
Nδ	[Grb 944 Ceph]	6.41	K 0	5 43 59.95	+18.869	+ 12	+85 10 20.71	+ 1.387	+ 3
Nd	51 H. Cephei	5.26	M 0	7 15 29.63	+28.277	− 48	+87 8 7.60	− 6.537	− 34
Nε	[Grb 1359 Caml]	6.39	A 0	8 4 1.95	+14.379	− 8	+84 13 22.84	−10.355	− 22
Nζ	[+84° 196 Caml]	6.26	F 0	9 4 13.74	+12.551	+ 18	+84 24 22.74	−14.429	+ 9
Ne	1 H. Draconis	4.58	K 2	9 29 24.66	+ 8.571	− 7	+81 34 19.82	−15.892	− 18
Nf	30 H. Camelop.	5.34	F 2	10 24 33.34	+ 7.328	− 44	+82 50 23.60	−18.307	+ 25
Nη	[+86° 161 Caml]	7.17	A 2	11 8 12.61	+ 7.242	− 41	+85 56 21.29	−19.535	+ 1
Nϑ	[Grb 1850 Caml]	6.38	F 5	12 1 55.64	+ 2.865	− 50	+85 53 30.61	−19.955	+ 88
Nι	[Grb 2063 Caml]	6.16	G 5	13 43 49.24	− 1.687	+ 20	+83 1 43.29	−18.070	− 48
Nκ	[Grb 2196 UMin]	5.73	G 0	14 53 53.81	− 4.049	+ 90	+82 44 20.98	−14.779	−232
Nλ	[Grb 2315 UMin]	7.32	A 2	15 48 59.33	− 6.227	+ 4	+83 6 57.71	−10.848	− 1
Ng	ε Ursae min.	4.40	G 5	16 51 31.65	− 6.158	+ 6	+82 7 51.16	− 5.900	+ 4
Nh	δ Ursae min.	4.44	A 0	17 49 55.54	−19.455	+ 12	+86 36 39.33	− 0.839	+ 55
Ni	λ Ursae min.	6.55	M 3	18 27 46.96	−76.914	−112	+89 2 52.77	+ 2.370	+ 2
Nμ	[Br 2412 Drac]	6.15	A 2	18 31 27.43	− 7.923	+ 6	+83 8 19.07	+ 2.706	− 31
Nν	[Grb 3212 Drac]	6.61	A 2	20 7 37.03	− 8.748	− 9	+84 30 43.72	+10.546	− 41
Nk	76 Draconis	5.69	A 0	20 46 41.53	− 4.326	+ 14	+82 19 45.67	+13.351	+ 27
Nξ	[32 H. Cephei]	5.38	A 0	22 17 57.78	− 4.781	+ 50	+85 49 56.40	+18.137	+ 49
No	[36 H. Cephei]	4.96	K 5	22 54 55.47	− 0.463	+ 58	+84 3 7.50	+19.275	+ 33
Nπ	[V Cephei]	6.42	A 0	23 53 49.84	+ 2.812	+ 26	+82 53 6.10	+20.055	+ 18

* var.

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Südliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0.s001	Dekl. 1945.0	Jährl. Veränderung 1945.5	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
Sα	[o Octantis]	7.22	A o	0 12 16.59	+ 0.046	+ 45	—88 40 7.58	+20.017	+ 3
Sa	4 G. Octantis	5.63	K o	1 40 22.41	— 3.441	+ 22	—85 2 53.58	+18.177	+ 25
Sβ	[Lac 1029 Octn]	7.76	F o	2 28 50.18	— 8.368	+ 1	—85 57 52.39	+15.945	— 21
Sγ	[Lac 1848 Octn]	8.35	G 5	2 40 22.16	—27.501	— 48	—88 23 21.40	+15.324	— 21
Sδ	[12 G. Mensae]	6.76	A 2	4 29 8.30	— 7.003	— 10	—83 1 16.90	+ 7.747	+ 2
Sb	ξ Mensae	5.85	K o	5 5 3.36	— 6.850	— 3	—82 32 50.25	+ 4.774	+ 10
Sε	[31 G. Mensae]	6.24	A o	5 40 48.80	—11.617	— 8	—84 49 6.48	+ 1.733	+ 49
Sζ	[6 G. Octantis]	6.74	K o	5 54 21.66	—15.722	— 15	—85 55 53.76	+ 0.508	+ 4
Sη	[7 G. Octantis]	6.41	F 2	7 6 44.34	—20.948	+ 10	—86 56 59.07	— 5.737	+ 3
Sϑ	[A Octantis]	7.75	A o	7 17 5.78	—51.528	— 9	—88 40 28.82	— 6.566	+ 15
Sc	ζ Octantis	5.38	F o	9 5 4.31	— 8.624	— 92	—85 26 45.80	—14.442	+ 36
Sι	[10 G. Octantis]	6.74	A o	10 34 26.52	— 3.582	— 2	—85 48 22.42	—18.658	+ 4
Sϰ	[η Octantis]	6.26	A o	10 59 44.66	— 0.451	— 44	—84 17 52.81	—19.359	— 5
Sd	ι Octantis	5.38	K o	12 48 58.78	+ 6.254	+ 46	—84 49 30.88	—19.561	+ 25
Sλ	[ϰ Octantis]	5.65	A 2	13 31 37.35	+ 9.632	— 67	—85 30 21.74	—18.483	— 23
Se	20 G. Octantis	6.52	A 2	14 59 0.04	+28.953	—178	—87 55 41.62	—14.289	— 69
Sμ	[ρ Octantis]	5.66	A 2	15 30 17.01	+13.779	+ 91	—84 17 14.71	—12.083	+ 91
Sf	26 G. Octantis	6.13	A o	16 39 58.34	+22.367	+ 10	—86 16 21.74	— 6.842	0
Sg	χ Octantis	5.22	K o	18 22 50.02	+35.469	— 71	—87 39 19.91	+ 1.889	—131
Sν	[44 G. Octantis]	6.32	K o	19 46 0.67	+11.069	+ 5	—81 29 32.98	+ 8.952	+ 1
Sh	σ Octantis	5.48	F o	20 8 31.59	+79.526	+132	—89 9 13.06	+10.707	— 3
Sξ	[48 G. Octantis]	7.08	A o	20 29 48.94	+14.322	+ 36	—84 35 58.88	+12.177	— 20
So	[B Octantis]	6.54	A 5	22 17 6.48	+39.916	+ 62	—89 6 6.82	+18.028	— 41
Sπ	[υ Octantis]	5.74	K o	22 21 42.29	+11.500	— 37	—86 14 58.36	+18.293	+ 62
Si	β Octantis	4.34	F o	22 40 33.87	+ 6.148	— 23	—81 40 15.25	+18.861	+ 9
Sk	τ Octantis	5.56	K o	23 20 37.25	+ 8.989	+ 27	—87 47 6.26	+19.760	+ 11

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Tag	1) α Andromedae AR.		1) α Andromedae Dekl.		2) β Cassiopeiae AR.		2) β Cassiopeiae Dekl.		3) ε Phoenicis AR.		3) ε Phoenicis Dekl.		7) γ Pegasi AR.		7) γ Pegasi Dekl.	
1945	$0^h\ 5^m$		$+28°\ 47'$		$0^h\ 6^m$		$+58°\ 50'$		$0^h\ 6^m$		$-46°\ 2'$		$0^h\ 10^m$		$+14°\ 52'$	
	s		″		s		″		s		″		s		″	
Jan. 0	31.268	146	14.78	94	12.745	327	57.58	76	36.098	193	84.64	34	22.915	121	37.82	85
10	31.122	139	13.84	120	12.418	315	56.82	127	35.905	178	84.30	80	22.794	115	36.97	96
20	30.983	127	12.64	141	12.103	290	55.55	174	35.727	156	83.50	123	22.679	106	36.01	103
30	30.856	109	11.23	155	11.813	253	53.81	213	35.571	130	82.27	164	22.573	90	34.98	106
Febr. 9	30.747	83	9.68	164	11.560	204	51.68	243	35.441	97	80.63	201	22.483	70	33.92	103
19	30.664	53	8.04	165	11.356	144	49.25	264	35.344	60	78.62	234	22.413	43	32.89	96
März 1	30.611	16	6.39	158	11.212	75	46.61	274	35.284	17	76.28	260	22.370	11	31.93	83
11	30.595	$\overline{27}$	4.81	143	11.137	$\overline{1}$	43.87	271	35.267	$\overline{29}$	73.68	282	22.359	$\overline{25}$	31.10	64
21	30.622	71	3.38	121	11.138	81	41.16	257	35.296	78	70.86	298	22.384	66	30.46	41
31	30.693	118	2.17	94	11.219	161	38.59	234	35.374	130	67.88	308	22.450	107	30.05	14
Apr. 10	30.811	165	1.23	60	11.380	238	36.25	201	35.504	182	64.80	312	22.557	150	29.91	$\overline{16}$
20	30.976	210	0.63	24	11.618	309	34.24	160	35.686	232	61.68	310	22.707	190	30.07	48
30	31.186	249	0.39	$\overline{16}$	11.927	372	32.64	114	35.918	279	58.58	300	22.897	228	30.55	80
Mai 10	31.435	284	0.55	55	12.299	425	31.50	63	36.197	322	55.58	284	23.125	261	31.35	110
20	31.719	311	1.10	93	12.724	464	30.87	11	36.519	357	52.74	262	23.386	288	32.45	139
30	32.030	329	2.03	130	13.188	490	30.76	$\overline{43}$	36.876	385	50.12	233	23.674	306	33.84	163
Juni 9	32.359	340	3.33	162	13.678	502	31.19	95	37.261	404	47.79	198	23.980	318	35.47	185
19	32.699	340	4.95	190	14.180	501	32.14	143	37.665	411	45.81	160	24.298	320	37.32	200
29	33.039	333	6.85	214	14.681	486	33.57	189	38.076	409	44.21	116	24.618	314	39.32	210
Juli 9	33.372	316	8.99	232	15.167	459	35.46	229	38.485	395	43.05	69	24.932	300	41.42	216
19	33.688	292	11.31	244	15.626	421	37.75	264	38.880	371	42.36	22	25.232	280	43.58	216
29	33.980	262	13.75	250	16.047	375	40.39	293	39.251	337	42.14	$\overline{26}$	25.512	252	45.74	211
Aug. 8	34.242	227	16.25	251	16.422	320	43.32	316	39.588	296	42.40	73	25.764	221	47.85	201
18	34.469	188	18.76	246	16.742	262	46.48	331	39.884	247	43.13	116	25.985	185	49.86	187
28	34.657	147	21.22	238	17.004	200	49.79	339	40.131	194	44.29	154	26.170	147	51.73	171
Sept. 7	34.804	107	23.60	225	17.204	135	53.18	341	40.325	137	45.83	187	26.317	109	53.44	151
17	34.911	66	25.85	207	[23] 17.339	71	56.59	336	[23] 40.462	80	47.70	211	[24] 26.426	71	54.95	129
26	[22] 34.977	28	27.92	186	17.410	9	59.95	325	40.542	24	49.81	227	26.497	36	56.24	108
Okt. 6	35.005	$\overline{7}$	29.78	164	17.419	$\overline{50}$	63.20	305	40.566	$\overline{28}$	52.08	233	26.533	4	57.32	85
16	34.998	38	31.42	139	17.369	106	66.25	281	40.538	75	54.41	230	26.537	$\overline{25}$	58.17	62
26	34.960	66	32.81	111	17.263	157	69.06	249	40.463	116	56.71	216	26.512	50	58.79	40
Nov. 5	34.894	89	33.92	81	17.106	204	71.55	211	40.347	149	58.87	195	26.462	71	59.19	18
15	34.805	108	34.73	50	16.902	243	73.66	169	40.198	173	60.82	164	26.391	87	59.37	$\overline{2}$
25	34.697	124	35.23	20	16.659	277	75.35	121	40.025	191	62.46	127	26.304	101	59.35	23
Dez. 5	34.573	134	35.43	$\overline{13}$	16.382	302	76.56	68	39.834	200	63.73	85	26.203	111	59.12	42
15	34.439	141	35.30	45	16.080	319	77.24	15	39.634	201	64.58	40	26.092	116	58.70	59
25	34.298	144	34.85	74	15.761	325	77.39	$\overline{40}$	39.433	197	64.98	$\overline{6}$	25.976	118	58.11	74
35	34.154		34.11		15.436		76.99		39.236		64.92		25.858		57.37	
Mittl. Ort	32.337		12.72		13.712		47.44		37.557		62.62		23.999		40.49	
sec δ, tg δ	1.141		+0.549		1.933		+1.654		1.441		−1.037		1.035		+0.266	
a, *a′*	+3.1		+20.0		+3.1		+20.0		+3.0		+20.0		+3.1		+20.0	
b, *b′*	+0.04		− 0.02		+0.11		− 0.03		−0.07		− 0.03		+0.02		− 0.05	

Scheinbare Sternörter 1945

Tag		9) ι Ceti AR.		9) ι Ceti Dekl.		10) ζ Tucanae[1]) AR.		10) ζ Tucanae[1]) Dekl.		11) β Hydri[2]) AR.		11) β Hydri[2]) Dekl.		12) α Phoenicis AR.		12) α Phoenicis Dekl.	
1945		$0^h\ 16^m$		$-9°\ 7'$		$0^h\ 17^m$		$-65°\ 11'$		$0^h\ 22^m$		$-77°\ 33'$		$0^h\ 23^m$		$-42°\ 35'$	
		s		"		s		"		s		"		s		"	
Jan.	0	36.371	113	54.25	56	11.43	39	77.86	81	51.41	85	76.68	104	32.956	185	97.41	8
	10	36.258	108	54.81	41	11.04	36	77.05	136	50.56	81	75.64	164	32.771	175	97.33	54
	20	36.150	99	55.22	24	10.68	32	75.69	189	49.75	72	74.00	217	32.596	158	96.79	96
	30	36.051	84	55.46	6	10.36	27	73.80	235	49.03	62	71.83	264	32.438	137	95.83	138
Febr.	9	35.967	65	55.52	14	10.09	22	71.45	276	48.41	50	69.19	305	32.301	110	94.45	176
	19	35.902	41	55.38	35	9.87	15	68.69	309	47.91	38	66.14	337	32.191	76	92.69	210
März	1	35.861	12	55.03	58	9.72	8	65.60	336	47.53	23	62.77	362	32.115	38	90.59	239
	11	35.849	22	54.45	82	9.64	0	62.24	354	47.30	8	59.15	377	32.077	5	88.20	264
	21	35.871	59	53.63	105	9.64	8	58.70	365	47.22	7	55.38	384	32.082	52	85.56	284
	31	35.930	99	52.58	129	9.72	16	55.05	369	47.29	23	51.54	383	32.134	102	82.72	298
Apr.	10	36.029	140	51.29	151	9.88	24	51.36	363	47.52	38	47.71	374	32.236	152	79.74	305
	20	36.169	180	49.78	171	10.12	31	47.73	352	47.90	52	43.97	357	32.388	201	76.69	307
	30	36.349	216	48.07	189	10.43	40	44.21	332	48.42	67	40.40	332	32.589	249	73.62	302
Mai	10	36.565	250	46.18	201	10.83	46	40.89	305	49.09	79	37.08	300	32.838	292	70.60	291
	20	36.815	278	44.17	210	11.29	52	37.84	272	49.88	91	34.08	262	33.130	329	67.69	272
	30	37.093	298	42.07	214	11.81	56	35.12	231	50.79	99	31.46	217	33.459	359	64.97	247
Juni	9	37.391	312	39.93	211	12.37	60	32.81	186	51.78	106	29.29	168	33.818	379	62.50	217
	19	37.703	317	37.82	205	12.97	61	30.95	136	52.84	109	27.61	114	34.197	390	60.33	180
	29	38.020	314	35.77	192	13.58	62	29.59	83	53.93	111	26.47	58	34.587	391	58.53	140
Juli	9	38.334	303	33.85	174	14.20	60	28.76	28	55.04	109	25.89	1	34.978	382	57.13	95
	19	38.637	284	32.11	153	14.80	58	28.48	27	56.13	104	25.88	57	35.360	362	56.18	49
	29	38.921	259	30.58	127	15.38	52	28.75	82	57.17	97	26.45	112	35.722	333	55.69	1
Aug.	8	39.180	229	29.31	100	15.90	47	29.57	132	58.14	85	27.57	164	36.055	297	55.68	46
	18	39.409	194	28.31	70	16.37	39	30.89	179	58.99	73	29.21	210	36.352	253	56.14	91
	28	39.603	156	27.61	41	16.76	31	32.68	219	59.72	57	31.31	249	36.605	205	57.05	131
Sept.	7	39.759	118	27.20	12	17.07	22	34.87	251	60.29	40	33.80	279	36.810	153	58.36	167
	17	39.877	80	27.08	15	17.29	12	37.38	273	60.69	21	36.59	298	36.963	100	60.03	194
	26*)	[25]39.957	43	27.23	37	[25]17.41	3	40.11	284	[27]60.90	3	39.57	307	[27]37.063	47	61.97	215
Okt.	6	40.000	9	27.60	57	17.44	6	42.95	285	60.93	15	42.64	303	37.110	1	64.12	226
	16	40.009	20	28.17	73	17.38	15	45.80	273	60.78	33	45.67	287	37.109	47	66.38	226
	26	39.989	45	28.90	83	17.23	22	48.53	250	60.45	49	48.54	259	37.062	87	68.64	219
Nov.	5	39.944	67	29.73	89	17.01	29	51.03	216	59.96	63	51.13	220	36.975	120	70.83	201
	15	39.877	84	30.62	91	16.72	34	53.19	175	59.33	74	53.33	173	36.855	146	72.84	175
	25	39.793	96	31.53	88	16.38	38	54.94	125	58.59	82	55.06	118	36.709	166	74.59	143
Dez.	5	39.697	105	32.41	83	16.00	39	56.19	70	57.77	87	56.24	57	36.543	179	76.02	105
	15	39.592	110	33.24	73	15.61	40	56.89	12	56.90	89	56.81	5	36.364	185	77.07	62
	25	39.482	111	33.97	62	15.21	40	57.01	47	56.01	88	56.76	67	36.179	185	77.69	18
	35	39.371		34.59		14.81		56.54		55.13		56.09		35.994		77.87	
Mittl. Ort		37.502		43.03		13.13		52.18		53.65		49.79		34.209		75.89	
sec δ, tg δ		1.013		−0.161		2.384		−2.164		4.644		−4.535		1.359		−0.920	
a, a′		+3.1		+20.0		+2.9		+20.0		+2.5		+19.9		+2.9		+19.9	
b, b′		−0.01		−0.07		−0.14		−0.08		−0.30		−0.10		−0.06		−0.10	

[1]) Die jährliche Parallaxe (0."133) ist bereits berücksichtigt.

[2]) Die jährliche Parallaxe (0."143) ist bereits berücksichtigt.

*) Bei Stern 11) und 12) [illegible] Sept. 27

Tag	13) 12 Ceti AR.		13) 12 Ceti Dekl.		17) ζ Cassiopeiae AR.		17) ζ Cassiopeiae Dekl.		18) π Andromedae AR.		18) π Andromedae Dekl.		20) δ Andromedae AR.		20) δ Andromedae Dekl.	
1945	$0^h\ 27^m$		$-4^\circ\ 15'$		$0^h\ 33^m$		$+53^\circ\ 35'$		$0^h\ 33^m$		$+33^\circ\ 24'$		$0^h\ 36^m$		$+30^\circ\ 33'$	
	s		″		s		″		s		″		s		″	
Jan. 0	12.807	114	49.01	64	52.815	273	49.11	48	55.273	162	63.93	70	21.920	153	39.37	70
10	12.693	111	49.65	54	52.542	272	48.63	97	55.111	161	63.23	101	21.767	153	38.67	98
20	12.582	104	50.19	41	52.270	260	47.66	141	54.950	155	62.22	127	21.614	148	37.69	121
30	12.478	91	50.60	27	52.010	236	46.25	180	54.795	140	60.95	148	21.466	134	36.48	140
Febr. 9	12.387	74	50.87	11	51.774	201	44.45	211	54.655	118	59.47	163	21.332	113	35.08	153
19	12.313	51	50.98	9	51.573	155	42.34	233	54.537	89	57.84	171	21.219	85	33.55	159
März 1	12.262	22	50.89	29	51.418	100	40.01	246	54.448	51	56.13	170	21.134	50	31.96	157
11	12.240	11	50.60	52	51.318	36	37.55	247	54.397	9	54.43	162	21.084	9	30.39	147
21	12.251	49	50.08	77	51.282	33	35.08	239	54.388	39	52.81	146	21.075	37	28.92	131
31	12.300	88	49.31	100	51.315	104	32.69	219	54.427	90	51.35	122	21.112	86	27.61	107
Apr. 10	12.388	129	48.31	124	51.419	174	30.50	191	54.517	140	50.13	93	21.198	135	26.54	78
20	12.517	170	47.07	147	51.593	242	28.59	156	54.657	189	49.20	58	21.333	183	25.76	44
30	12.687	208	45.60	167	51.835	303	27.03	114	54.846	235	48.62	21	21.516	228	25.32	8
Mai 10	12.895	242	43.93	185	52.138	355	25.89	68	55.081	275	48.41	19	21.744	267	25.24	30
20	13.137	271	42.08	197	52.493	398	25.21	19	55.356	308	48.60	58	22.011	300	25.54	67
30	13.408	293	40.11	205	52.891	429	25.02	29	55.664	333	49.18	97	22.311	324	26.21	104
Juni 9	13.701	307	38.06	209	53.320	448	25.31	78	55.997	348	50.15	132	22.635	341	27.25	138
19	14.008	315	35.97	206	53.768	455	26.09	125	56.345	353	51.47	165	22.976	346	28.63	168
29	14.323	312	33.91	199	54.223	449	27.34	167	56.698	351	53.12	193	23.322	344	30.31	194
Juli 9	14.635	303	31.92	186	54.672	433	29.01	206	57.049	339	55.05	216	23.666	333	32.25	215
19	14.938	286	30.06	169	55.105	406	31.07	240	57.388	319	57.21	235	23.999	315	34.40	229
29	15.224	262	28.37	147	55.511	371	33.47	268	57.707	292	59.56	246	24.314	288	36.69	240
Aug. 8	15.486	233	26.90	123	55.882	328	36.15	291	57.999	259	62.02	253	24.602	256	39.09	245
18	15.719	200	25.67	96	56.210	280	39.06	306	58.258	223	64.55	254	24.858	222	41.54	243
28	15.919	164	24.71	69	56.490	228	42.12	315	58.481	183	67.09	251	25.080	183	43.97	239
Sept. 7	16.083	126	24.02	42	56.718	174	45.27	320	58.664	143	69.60	243	25.263	143	46.36	228
17	16.209	90	23.60	16	56.892	120	48.47	316	58.807	102	72.03	229	25.406	104	48.64	215
27	16.299	54	23.44	9	57.012	65	51.63	307	58.909	63	74.32	214	25.510	66	50.79	198
Okt. 6	28 16.353	21	23.53	29	30 57.077	13	54.70	292	30 58.972	25	76.46	193	30 25.576	30	52.77	177
16	16.374	9	23.82	47	57.090	37	57.62	270	58.997	9	78.39	170	25.606	4	54.54	155
26	16.365	34	24.29	61	57.053	84	60.32	244	58.988	41	80.09	145	25.602	35	56.09	130
Nov. 5	16.331	57	24.90	70	56.969	127	62.76	211	58.947	68	81.54	117	25.567	62	57.39	102
15	16.274	74	25.60	75	56.842	166	64.87	173	58.879	94	82.71	85	25.505	86	58.41	74
25	16.200	89	26.35	78	56.676	201	66.60	131	58.785	115	83.56	54	25.419	107	59.15	44
Dez. 5	16.111	100	27.13	77	56.475	229	67.91	84	58.670	133	84.10	20	25.312	124	59.59	13
15	16.011	107	27.90	74	56.246	251	68.75	36	58.537	147	84.30	14	25.188	138	59.72	19
25	15.904	110	28.64	67	55.995	266	69.11	15	58.390	155	84.16	48	25.050	147	59.53	50
35	15.794		29.31		55.729		68.96		58.235		83.68		24.903		59.03	
Mittl. Ort	13.855		39.36		53.599		40.32		56.163		60.67		22.808		37.03	
sec δ, tg δ	1.003		−0.075		1.685		+1.356		1.198		+0.660		1.161		+0.590	
a, a′	+3.1		+19.9		+3.3		+19.8		+3.2		+19.8		+3.2		+19.8	
b, b′	0.00		− 0.12		+0.09		− 0.15		+0.04		− 0.15		+0.04		− 0.16	

Scheinbare Sternörter 1945

Tag		21) α Cassiopeiae				22) β Ceti				25) ο Cassiopeiae				24) 21 Cassiopeiae			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$0^h\ 37^m$		+56° 13′		$0^h\ 40^m$		−18° 17′		$0^h\ 41^m$		+47° 58′		$0^h\ 41^m$		+74° 40′	
Jan.	0	21.534 s	299	79.25″	40	48.758 s	125	32.04″	49	38.160 s	229	68.80″	48	58.27 s	75	88.71″	2
	10	21.235	298	78.85	91	48.633	124	32.53	25	37.931	231	68.32	91	57.52	74	88.73	60
	20	20.937	286	77.94	137	48.509	118	32.78	2	37.700	222	67.41	132	56.78	72	88.13	118
	30	20.651	261	76.57	178	48.391	106	32.76	29	37.478	205	66.09	166	56.06	65	86.95	172
Febr.	9	20.390	224	74.79	212	48.285	88	32.47	56	37.273	176	64.43	194	55.41	57	85.23	219
	19	20.166	175	72.67	237	48.197	67	31.91	83	37.097	138	62.49	214	54.84	46	83.04	255
März	1	19.991	116	70.30	251	48.130	38	31.08	109	36.959	91	60.35	225	54.38	33	80.49	282
	11	19.875	48	67.79	255	48.092	4	29.99	135	36.868	36	58.10	224	54.05	18	77.67	296
	21	19.827	25	65.24	248	48.088	34	28.64	159	36.832	24	55.86	215	53.87	2	74.71	298
	31	19.852	101	62.76	230	48.122	74	27.05	182	36.856	88	53.71	196	53.85	13	71.73	288
Apr.	10	19.953	177	60.46	204	48.196	117	25.23	201	36:944	151	51.75	168	53.98	29	68.85	267
	20	20.130	249	58.42	169	48.313	159	23.22	218	37.095	212	50.07	135	54.27	44	66.18	236
	30	20.379	314	56.73	127	48.472	200	21.04	230	37.307	268	48.72	95	54.71	56	63.82	196
Mai	10	20.693	371	55.46	82	48.672	237	18.74	237	37.575	318	47.77	51	55.27	68	61.86	150
	20	21.064	416	54.64	33	48.909	269	16.37	240	37.893	358	47.26	6	55.95	77	60.36	100
	30	21.480	451	54.31	17	49.178	295	13.97	235	38.251	388	47.20	41	56.72	83	59.36	46
Juni	9	21.931	471	54.48	67	49.473	312	11.62	227	38.639	407	47.61	86	57.55	87	58.90	10
	19	22.402	479	55.15	115	49.785	324	9.35	211	39.046	416	48.47	129	58.42	90	59.00	64
	29	22.881	474	56.30	159	50.109	324	7.24	191	39.462	413	49.76	168	59.32	88	59.64	117
Juli	9	23.355	458	57.89	200	50.433	319	5.33	165	39.875	400	51.44	204	60.20	86	60.81	168
	19	23.813	430	59.89	235	50.752	303	3.68	135	40.275	378	53.48	233	61.06	81	62.49	213
	29	24.243	394	62.24	266	51.055	281	2.33	103	40.653	347	55.81	259	61.87	74	64.62	255
Aug.	8	24.637	349	64.90	290	51.336	254	1.30	68	41.000	310	58.40	277	62.61	65	67.17	291
	18	24.986	299	67.80	309	51.590	220	0.62	32	41.310	267	61.17	290	63.26	57	70.08	319
	28	25.285	245	70.89	320	51.810	184	0.30	3	41.577	221	64.07	297	63.83	46	73.27	343
Sept.	7	25.530	189	74.09	325	51.994	146	0.33	36	41.798	174	67.04	299	64.29	34	76.70	359
	17	25.719	131	77.34	324	52.140	106	0.69	66	41.972	125	70.03	293	64.63	23	80.29	368
	27	25.850	72	80.58	318	52.246	68	1.35	91	42.097	77	72.96	284	64.86	11	83.97	369
Okt.	6	25.922	17	83.76	303	52.314	32	2.26	111	42.174	31	75.80	268	64.97	1	87.66	363
	16	25.939	37	86.79	283	52.346	1	3.37	125	42.205	14	78.48	247	64.96	13	91.29	348
	26	25.902	88	89.62	256	52.345	30	4.62	132	42.191	55	80.95	221	64.83	25	94.77	326
Nov.	5	25.814	135	92.18	225	52.315	56	5.94	134	42.136	93	83.16	191	64.58	36	98.03	295
	15	25.679	178	94.43	187	52.259	77	7.28	129	42.043	128	85.07	155	64.22	46	100.98	258
	25	25.501	216	96.30	143	52.182	94	8.57	118	41.915	159	86.62	116	63.76	55	103.56	212
Dez.	5	25.285	249	97.73	97	52.088	107	9.75	103	41.756	185	87.78	74	63.21	63	105.68	160
	15	25.036	274	98.70	46	51.981	116	10.78	84	41.571	207	88.52	29	62.58	70	107.28	103
	25	24.762	290	99.16	5	51.865	121	11.62	62	41.364	220	88.81	17	61.88	73	108.31	42
	35	24.472		99.11		51.744		12.24		41.144		88.64		61.15		108.73	
Mittl. Ort		22.271		69.90		49.761		17.42		38.930		61.46		58.59		76.28	
sec δ, tg δ		1.799		+1.496		1.053		−0.331		1.494		+1.110		3.787		+3.652	
a, *a′*		+3.4		+19.8		+3.0		+19.7		+3.3		+19.7		+4.0		+19.7	
b, *b′*		+0.10		— 0.16		−0.02		— 0.18		+0.07		— 0.18		+0.24		— 0.18	

Tag		27) ζ Andromedae				32) γ Cassiopeiae				33) μ Andromedae				35) α Sculptoris			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		0h 44m		+23° 57′		0h 53m		+60° 24′		0h 53m		+38° 11′		0h 55m		−29° 38′	
		s		″		s		″		s		″		s		″	
Jan.	0	24.196	138	66.15	68	21.63	34	79.90	12	40.750	178	69.85	48	56.501	149	93.82	42
	10	24.058	141	65.47	89	21.29	36	79.78	66	40.572	182	69.37	83	56.352	150	94.24	6
	20	23.917	136	64.58	106	20.93	34	79.12	117	40.390	179	68.54	115	56.202	144	94.30	— 30
	30	23.781	126	63.52	119	20.59	32	77.95	163	40.211	167	67.39	142	56.058	133	94.00	67
Febr.	9	23.655	107	62.33	126	20.27	28	76.32	201	40.044	147	65.97	163	55.925	116	93.33	103
	19	23.548	83	61.07	128	19.99	23	74.31	231	39.897	118	64.34	177	55.809	93	92.30	135
März	1	23.465	52	59.79	122	19.76	17	72.00	252	39.779	80	62.57	182	55.716	63	90.95	167
	11	23.413	13	58.57	112	19.59	9	69.48	262	39.699	36	60.75	180	55.653	27	89.28	195
	21	23.400	— 29	57.45	93	19.50	1	66.86	259	39.663	— 14	58.95	168	55.626	— 12	87.33	220
	31	23.429	75	56.52	70	19.49	— 8	64.27	248	39.677	68	57.27	149	55.638	56	85.13	241
Apr.	10	23.504	121	55.82	43	19.57	17	61.79	225	39.745	124	55.78	123	55.694	101	82.72	258
	20	23.625	168	55.39	11	19.74	24	59.54	194	39.869	177	54.55	91	55.795	147	80.14	271
	30	23.793	211	55.28	— 22	19.98	32	57.60	156	40.046	227	53.64	55	55.942	192	77.43	276
Mai	10	24.004	249	55.50	57	20.30	39	56.04	112	40.273	273	53.09	16	56.134	234	74.67	278
	20	24.253	282	56.07	90	20.69	44	54.92	64	40.546	310	52.93	— 25	56.368	270	71.89	272
	30	24.535	307	56.97	121	21.13	49	54.28	14	40.856	340	53.18	65	56.638	300	69.17	260
Juni	9	24.842	324	58.18	150	21.62	51	54.14	— 37	41.196	359	53.83	104	56.938	324	66.57	242
	19	25.166	332	59.68	174	22.13	53	54.51	85	41.555	370	54.87	140	57.262	338	64.15	217
	29	25.498	332	61.42	194	22.66	53	55.36	133	41.925	370	56.27	172	57.600	343	61.98	188
Juli	9	25.830	322	63.36	209	23.19	51	56.69	177	42.295	361	57.99	200	57.943	341	60.10	153
	19	26.152	306	65.45	219	23.70	49	58.46	216	42.656	344	59.99	222	58.284	328	58.57	114
	29	26.458	282	67.64	224	24.19	45	60.62	251	43.000	320	62.21	241	58.612	308	57.43	72
Aug.	8	26.740	254	69.88	223	24.64	41	63.13	280	43.320	288	64.62	253	58.920	281	56.71	30
	18	26.994	220	72.11	218	25.05	35	65.93	302	43.608	253	67.15	259	59.201	248	56.41	— 13
	28	27.214	185	74.29	208	25.40	30	68.95	319	43.861	213	69.74	261	59.449	210	56.54	54
Sept.	7	27.399	148	76.37	195	25.70	24	72.14	329	44.074	173	72.35	257	59.659	170	57.08	92
	17	27.547	110	78.32	179	25.94	18	75.43	333	44.247	132	74.92	249	59.829	127	58.00	126
	27	27.657	74	80.11	161	26.12	11	78.76	330	44.379	91	77.41	237	59.956	84	59.26	152
Okt.	6	27.731	40	81.72	140	26.23	4	82.06	321	44.470	51	79.78	220	60.040	44	60.78	172
	16	27.771	7 —	83.12	118	26.27	— 1	85.27	304	44.521	14 —	81.98	200	60.084	6 —	62.50	184
	26	27.778	21	84.30	95	26.26	7	88.31	281	44.535	22	83.98	175	60.090	28	64.34	188
Nov.	5	27.757	48	85.25	71	26.19	14	91.12	252	44.513	54	85.73	149	60.062	60	66.22	183
	15	27.709	71	85.96	47	26.05	18	93.64	216	44.459	84	87.22	119	60.002	85	68.05	171
	25	27.638	91	86.43	22	25.87	23	95.80	175	44.375	111	88.41	85	59.917	107	69.76	151
Dez.	5	27.547	108	86.65	— 4	25.64	28	97.55	127	44.264	135	89.26	50	59.810	124	71.27	126
	15	27.439	121	86.61	28	25.36	31	98.82	77	44.129	153	89.76	14	59.686	137	72.53	96
	25	27.318	131	86.33	52	25.05	33	99.59	24	43.976	169	89.90	— 24	59.549	144	73.49	62
	35	27.187		85.81		24.72		99.83		43.807		89.66		59.405		74.11	
Mittl. Ort		25.061		66.06		22.19		69.87		41.503		65.36		57.417		75.51	
sec δ, tg δ		1.094		+0.445		2.026		+1.762		1.273		+0.787		1.151		−0.569	
a, a′		+3.2		+19.7		+3.6		+19.5		+3.3		+19.5		+2.9		+19.4	
b, b′		+0.03		−0.19		+0.11		−0.23		+0.05		−0.23		−0.04		−0.24	

Scheinbare Sternörter 1945

Tag	36) ε Piscium AR.		36) ε Piscium Dekl.		1031) υ Phoenicis AR.		1031) υ Phoenicis Dekl.		42) β Andromedae AR.		42) β Andromedae Dekl.		45) υ Piscium AR.		45) υ Piscium Dekl.	
1945	$1^h\ 0^m$		$+7°\ 35'$		$1^h\ 5^m$		$-41°\ 46'$		$1^h\ 6^m$		$+35°\ 19'$		$1^h\ 16^m$		$+26°\ 58'$	
	s		″		s		″		s		″		s		″	
Jan. 0	4.304	119	34.40	67	16.420	194	72.25	32	37.972	166	49.66	41	25.528	142	32.73	46
10	4.185	122	33.73	70	16.226	194	72.57	$\overline{15}$	37.806	173	49.25	74	25.386	151	32.27	68
20	4.063	122	33.03	69	16.032	188	72.42	60	37.633	173	48.51	102	25.235	153	31.59	89
30	3.941	115	32.34	66	15.844	174	71.82	105	37.460	165	47.49	127	25.082	148	30.70	106
Febr. 9	3.826	102	31.68	59	15.670	155	70.77	148	37.295	148	46.22	147	24.934	135	29.64	118
19	3.724	81	31.09	48	15.515	127	69.29	186	37.147	122	44.75	160	24.799	114	28.46	125
März 1	3.643	55	30.61	35	15.388	94	67.43	221	37.025	88	43.15	165	24.685	84	27.21	126
11	3.588	23	30.26	17	15.294	55	65.22	251	36.937	47	41.50	163	24.601	48	25.95	119
21	3.565	$\overline{15}$	30.09	$\overline{4}$	15.239	9	62.71	276	36.890	$\overline{1}$	39.87	152	24.553	6	24.76	107
31	3.580	56	30.13	27	15.230	$\overline{40}$	59.95	296	36.891	53	38.35	135	24.547	$\overline{41}$	23.69	89
Apr. 10	3.636	99	30.40	53	15.270	92	56.99	309	36.944	106	37.00	111	24.588	90	22.80	64
20	3.735	143	30.93	79	15.362	144	53.90	318	37.050	159	35.89	81	24.678	140	22.16	37
30	3.878	185	31.72	105	15.506	195	50.72	318	37.209	209	35.08	47	24.818	187	21.79	6
Mai 10	4.063	221	32.77	130	15.701	243	47.54	312	37.418	255	34.61	10	25.005	230	21.73	$\overline{27}$
20	4.284	255	34.07	151	15.944	286	44.42	299	37.673	293	34.51	$\overline{28}$	25.235	267	22.00	60
30	4.539	282	35.58	170	16.230	323	41.43	279	37.966	324	34.79	65	25.502	298	22.60	92
Juni 9	4.821	300	37.28	185	16.553	352	38.64	253	38.290	346	35.44	102	25.800	321	23.52	122
19	5.121	312	39.13	195	16.905	371	36.11	219	38.636	358	36.46	135	26.121	335	24.74	149
29	5.433	314	41.08	199	17.276	381	33.92	180	38.994	362	37.81	166	26.456	339	26.23	172
Juli 9	5.747	310	43.07	199	17.657	381	32.12	137	39.356	356	39.47	191	26.795	335	27.95	190
19	6.057	297	45.06	193	18.038	370	30.75	91	39.712	341	41.38	212	27.130	325	29.85	204
29	6.354	277	46.99	183	18.408	351	29.84	41	40.053	320	43.50	228	27.455	306	31.89	213
Aug. 8	6.631	253	48.82	169	18.759	323	29.43	$\overline{9}$	40.373	292	45.78	239	27.761	281	34.02	216
18	6.884	223	50.51	151	19.082	287	29.52	57	40.665	259	48.17	244	28.042	252	36.18	216
28	7.107	191	52.02	131	19.369	245	30.09	104	40.924	223	50.61	245	28.294	219	38.34	211
Sept. 7	7.298	157	53.33	108	19.614	199	31.13	145	41.147	185	53.06	240	28.513	184	40.45	201
17	7.455	123	54.41	86	19.813	150	32.58	181	41.332	145	55.46	232	28.697	149	42.46	189
27	7.578	88	55.27	63	19.963	100	34.39	208	41.477	106	57.78	220	28.846	112	44.35	174
Okt. 6*)	[6] 7.666	55	55.90	41	[8] 20.063	50	36.47	227	[8] 41.583	69	59.98	204	[10] 28.958	78	46.09	156
16	7.721	26	56.31	21	20.113	5	38.74	237	41.652	32	62.02	185	29.036	45	47.65	138
26	7.747	$\overline{3}$	56.52	2	20.118	$\overline{39}$	41.11	236	41.684	$\overline{3}$	63.87	162	29.081	12	49.03	116
Nov. 5	7.744	27	56.54	$\overline{13}$	20.079	78	43.47	226	41.681	35	65.49	138	29.093	$\overline{17}$	50.19	95
15	7.717	50	56.41	28	20.001	112	45.73	206	41.646	65	66.87	110	29.076	44	51.14	71
25	7.667	69	56.13	40	19.889	139	47.79	178	41.581	92	67.97	80	29.032	70	51.85	47
Dez. 5	7.598	87	55.73	49	19.750	161	49.57	143	41.489	117	68.77	48	28.962	94	52.32	23
15	7.511	100	55.24	57	19.589	178	51.00	102	41.372	137	69.25	15	28.868	113	52.55	$\overline{3}$
25	7.411	111	54.67	63	19.411	188	52.02	59	41.235	155	69.40	$\overline{18}$	28.755	130	52.52	29
35	7.300		54.04		19.223		52.61		41.080		69.22		28.625		52.23	
Mittl. Ort	5.128		40.16		17.262		50.62		38.664		46.19		26.204		32.00	
sec δ, tg δ	1.009		+0.133		1.341		−0.893		1.226		+0.709		1.122		+0.509	
a, *a′*	+3.1		+19.4		+2.7		+19.2		+3.3		+19.2		+3.3		+18.9	
b, *b′*	+0.01		− 0.26		−0.06		− 0.28		+0.05		− 0.29		+0.03		− 0.33	

*) Bei Stern 1031), 42) und 45) lies Okt. 7.

Tag	47) ϑ Ceti AR.		47) ϑ Ceti Dekl.		48) δ Cassiopeiae AR.		48) δ Cassiopeiae Dekl.		50) η Piscium AR.		50) η Piscium Dekl.		51) 40 Cassiopeiae AR.		51) 40 Cassiopeiae Dekl.	
1945	$1^h\ 21^m$		−8° 27′		$1^h\ 22^m$		+59° 56′		$1^h\ 28^m$		+15° 3′		$1^h\ 34^m$		+72° 45′	
	s		″		s		″		s		″		s		″	
Jan. 0	15.650	120	71.44	71	11.527	329	70.18	23	31.490	122	43.08	55	4.74	62	49.90	69
10	15.530	126	72.15	54	11.198	345	70.41	30	31.368	132	42.53	65	4.12	65	50.59	10
20	15.404	128	72.69	36	10.853	347	70.11	81	31.236	136	41.88	72	3.47	66	50.69	50
30	15.276	124	73.05	17	10.506	335	69.30	129	31.100	134	41.16	76	2.81	63	50.19	106
Febr. 9	15.152	114	73.22	5	10.171	306	68.01	171	30.966	125	40.40	77	2.18	59	49.13	159
19	15.038	97	73.17	26	9.865	264	66.30	205	30.841	108	39.63	75	1.59	52	47.54	204
März 1	14.941	74	72.91	50	9.601	206	64.25	231	30.733	84	38.88	67	1.07	42	45.50	240
11	14.867	43	72.41	74	9.395	137	61.94	247	30.649	51	38.21	55	0.65	30	43.10	265
21	14.824	7	71.67	99	9.258	59	59.47	251	30.598	14	37.66	39	0.35	18	40.45	280
31	14.817	32	70.68	122	9.199	25	56.96	246	30.584	28	37.27	19	0.17	3	37.65	283
Apr. 10	14.849	74	69.46	146	9.224	112	54.50	230	30.612	74	37.08	4	0.14	11	34.82	273
20	14.923	118	68.00	167	9.336	196	52.20	205	30.686	120	37.12	31	0.25	25	32.09	255
30	15.041	161	66.33	186	9.532	276	50.15	172	30.806	164	37.43	57	0.50	38	29.54	227
Mai 10	15.202	201	64.47	201	9.808	348	48.43	133	30.970	205	38.00	85	0.88	50	27.27	190
20	15.403	236	62.46	213	10.156	410	47.10	90	31.175	243	38.85	110	1.38	61	25.37	148
30	15.639	267	60.33	219	10.566	460	46.20	43	31.418	274	39.95	134	1.99	70	23.89	101
Juni 9	15.906	289	58.14	220	11.026	496	45.77	5	31.692	297	41.29	154	2.69	76	22.88	50
19	16.195	305	55.94	215	11.522	519	45.82	53	31.989	312	42.83	171	3.45	80	22.38	2
29	16.500	312	53.79	205	12.041	529	46.35	99	32.301	319	44.54	184	4.25	82	22.40	53
Juli 9	16.812	312	51.74	190	12.570	524	47.34	143	32.620	319	46.38	191	5.07	82	22.93	103
19	17.124	303	49.84	169	13.094	509	48.77	185	32.939	310	48.29	193	5.89	81	23.96	151
29	17.427	288	48.15	144	13.603	481	50.62	220	33.249	295	50.22	191	6.70	77	25.47	195
Aug. 8	17.715	267	46.71	117	14.084	444	52.82	251	33.544	273	52.13	185	7.47	72	27.42	235
18	17.982	240	45.54	86	14.528	399	55.33	277	33.817	247	53.98	173	8.19	65	29.77	271
28	18.222	210	44.68	54	14.927	349	58.10	297	34.064	218	55.71	160	8.84	58	32.48	300
Sept. 7	18.432	176	44.14	23	15.276	293	61.07	311	34.282	186	57.31	142	9.42	49	35.48	323
17	18.608	143	43.91	7	15.569	235	64.18	320	34.468	153	58.73	124	9.91	40	38.71	341
27	18.751	108	43.98	34	15.804	174	67.38	321	34.621	120	59.97	104	10.31	30	42.12	351
Okt. 7	18.859	74	44.32	59	15.978	112	70.59	316	34.741	88	61.01	85	10.61	19	45.63	355
16	^{12}18.933	43	44.91	77	^{12}16.090	52	73.75	306	^{13}34.829	57	61.86	65	^{15}10.80	9	49.18	350
26	18.976	13	45.68	92	16.142	10	76.81	288	34.886	26	62.51	46	10.89	2	52.68	338
Nov. 5	18.989	14	46.60	102	16.132	70	79.69	265	34.912	1	62.97	27	10.87	14	56.06	319
15	18.975	39	47.62	105	16.062	128	82.34	234	34.911	27	63.24	11	10.73	24	59.25	291
25	18.936	61	48.67	104	15.934	181	84.68	197	34.884	51	63.35	4	10.49	34	62.16	256
Dez. 5	18.875	80	49.71	98	15.753	231	86.65	154	34.833	73	63.31	20	10.15	43	64.72	212
15	18.795	97	50.69	90	15.522	274	88.19	108	34.760	94	63.11	33	9.72	52	66.84	163
25	18.698	110	51.59	77	15.248	309	89.27	57	34.666	109	62.78	46	9.20	58	68.47	107
35	18.588		52.36		14.939		89.84		34.557		62.32		8.62		69.54	
Mittl. Ort	16.373		59.93		11.857		60.73		32.139		46.46		4.45		38.63	
sec δ, tg δ	1.011		−0.149		1.997		+1.729		1.036		+0.269		3.374		+3.223	
a, a′	+3.0		+18.8		+3.9		+18.8		+3.2		+18.6		+4.8		+18.4	
b, b′	−0.01		−0.35		+0.11		−0.35		+0.02		−0.38		+0.20		−0.40	

Scheinbare Sternörter 1945

Tag	52) 51 Andromedae AR.		52) Dekl.		54) α Eridani AR.		54) Dekl.		55) 43 Cassiopeiae AR.		55) Dekl.		57) φ Persei AR.		57) Dekl.	
1945	$1^h\,34^m$		+48° 20′		$1^h\,35^m$		−57° 30′		$1^h\,38^m$		+67° 45′		$1^h\,40^m$		+50° 24′	
	s		″		s		″		s		″		s		″	
Jan. 0	35.792	218	68.07	10	39.722	317	80.74	42	14.20	46	67.68	62	11.578	229	52.22	20
10	35.574	235	68.17	34	39.405	324	81.16	16	13.74	49	68.30	5	11.349	249	52.42	24
20	35.339	242	67.83	75	39.081	320	81.00	72	13.25	49	68.35	51	11.100	257	52.18	67
30	35.097	237	67.08	114	38.761	307	80.28	125	12.76	48	67.84	105	10.843	253	51.51	108
Febr. 9	34.860	222	65.94	147	38.454	282	79.03	175	12.28	45	66.79	155	10.590	239	50.43	144
19	34.638	194	64.47	174	38.172	249	77.28	222	11.83	40	65.24	197	10.351	211	48.99	173
März 1	34.444	155	62.73	194	37.923	206	75.06	261	11.43	32	63.27	231	10.140	170	47.26	195
11	34.289	106	60.79	204	37.717	155	72.45	295	11.11	24	60.96	254	9.970	121	45.31	208
21	34.183	49	58.75	205	37.562	96	69.50	324	10.87	13	58.42	267	9.849	61	43.23	211
31	34.134	14	56.70	198	37.466	31	66.26	344	10.74	3	55.75	269	9.788	5	41.12	206
Apr. 10	34.148	79	54.72	181	37.435	37	62.82	357	10.71	9	53.06	259	9.793	73	39.06	191
20	34.227	146	52.91	157	37.472	107	59.25	363	10.80	20	50.47	240	9.866	141	37.15	169
30	34.373	209	51.34	127	37.579	178	55.62	361	11.00	31	48.07	212	10.007	208	35.46	139
Mai 10	34.582	267	50.07	91	37.757	245	52.01	351	11.31	41	45.95	176	10.215	269	34.07	103
20	34.849	318	49.16	51	38.002	308	48.50	334	11.72	49	44.19	134	10.484	323	33.04	65
30	35.167	360	48.65	10	38.310	364	45.16	307	12.21	56	42.85	88	10.807	367	32.39	23
Juni 9	35.527	391	48.55	32	38.674	410	42.09	275	12.77	61	41.97	39	11.174	401	32.16	19
19	35.918	412	48.87	74	39.084	447	39.34	235	13.38	64	41.58	10	11.575	424	32.35	62
29	36.330	422	49.61	113	39.531	472	36.99	190	14.02	67	41.68	60	11.999	436	32.97	102
Juli 9	36.752	422	50.74	149	40.003	483	35.09	139	14.69	67	42.28	109	12.435	436	33.99	140
19	37.174	412	52.23	182	40.486	483	33.70	84	15.36	65	43.37	153	12.871	428	35.39	174
29	37.586	392	54.05	210	40.969	469	32.86	28	16.01	63	44.90	196	13.299	409	37.13	204
Aug. 8	37.978	365	56.15	233	41.438	441	32.58	29	16.64	59	46.86	233	13.708	383	39.17	230
18	38.343	332	58.48	252	41.879	404	32.87	86	17.23	54	49.19	265	14.091	349	41.47	250
28	38.675	294	61.00	265	42.283	355	33.73	138	17.77	47	51.84	293	14.440	311	43.97	265
Sept. 7	38.969	253	63.65	273	42.638	297	35.11	186	18.24	41	54.77	314	14.751	269	46.62	276
17	39.222	208	66.38	275	42.935	234	36.97	227	18.65	34	57.91	329	15.020	223	49.38	280
27	39.430	163	69.13	273	43.169	166	39.24	259	18.99	25	61.20	337	15.243	178	52.18	279
Okt. 7	15 39.593	118	71.86	266	15 43.335	95	41.83	280	16 19.24	18	64.57	340	16 15.421	130	54.97	274
16	39.711	73	74.52	254	43.430	26	44.63	290	19.42	9	67.97	334	15.551	83	57.71	264
26	39.784	27	77.06	236	43.456	41	47.53	290	19.51	1	71.31	323	15.634	35	60.35	247
Nov. 5	39.811	16	79.42	213	43.415	104	50.43	277	19.52	7	74.54	302	15.669	11	62.82	226
15	39.795	59	81.55	187	43.311	161	53.20	253	19.45	16	77.56	275	15.658	56	65.08	200
25	39.736	99	83.42	156	43.150	210	55.73	219	19.29	23	80.31	240	15.602	100	67.08	168
Dez. 5	39.637	137	84.98	119	42.940	251	57.92	176	19.06	31	82.71	199	15.502	141	68.76	132
15	39.500	172	86.17	81	42.689	283	59.68	128	18.75	38	84.70	151	15.361	178	70.08	93
25	39.328	200	86.98	38	42.406	306	60.96	74	18.37	42	86.21	99	15.183	210	71.01	51
35	39.128		87.36		42.100		61.70		17.95		87.20		14.973		71.52	
Mittl. Ort	36.215		61.44		40.115		56.11		14.14		57.20		11.940		45.20	
sec δ, tg δ	1.505		+1.124		1.862		−1.571		2.643		+2.446		1.569		+1.209	
a, a′	+3.7		+18.4		+2.2		+18.3		+4.4		+18.2		+3.8		+18.2	
b, b′	+0.07		−0.40		−0.10		−0.41		+0.15		−0.42		+0.07		−0.42	

Tag	59) τ Ceti [1]				60) ο Piscium				61) ε Sculptoris				62) ζ Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	1h 41m		−16° 13′		1h 42m		+8° 52′		1h 43m		−25° 19′		1h 48m		−10° 36′	
	s		″		s		″		s		″		s		″	
Jan. 0	30.117	130	49.48	74	28.543	116	48.52	59	3.642	142	53.27	79	44.086	119	33.86	78
10	29.987	139	50.22	48	28.427	127	47.93	61	3.500	151	54.06	45	43.967	130	34.64	60
20	29.848	143	50.70	22	28.300	134	47.32	61	3.349	155	54.51	11	43.837	137	35.24	39
30	29.705	142	50.92	6	28.166	134	46.71	60	3.194	154	54.62	25	43.700	138	35.63	15
Febr. 9	29.563	134	50.86	34	28.032	127	46.11	54	3.040	145	54.37	61	43.562	131	35.78	7
19	29.429	118	50.52	63	27.905	114	45.57	47	2.895	129	53.76	95	43.431	118	35.71	32
März 1	29.311	96	49.89	91	27.791	91	45.10	35	2.766	106	52.81	128	43.313	98	35.39	57
11	29.215	67	48.98	118	27.700	62	44.75	20	2.660	76	51.53	159	43.215	70	34.82	82
21	29.148	32	47.80	144	27.638	26	44.55	3	2.584	39	49.94	188	43.145	35	34.00	108
31	29.116	9	46.36	170	27.612	14	44.52	18	2.545	2	48.06	213	43.110	4	32.92	133
Apr. 10	29.125	52	44.66	192	27.626	58	44.70	41	2.547	47	45.93	235	43.114	46	31.59	155
20	29.177	96	42.74	212	27.684	103	45.11	65	2.594	93	43.58	253	43.160	90	30.04	177
30	29.273	141	40.62	228	27.787	148	45.76	90	2.687	140	41.05	266	43.250	135	28.27	196
Mai 10	29.414	183	38.34	239	27.935	190	46.66	113	2.827	185	38.39	274	43.385	177	26.31	211
20	29.597	222	35.95	246	28.125	227	47.79	136	3.012	225	35.65	275	43.562	216	24.20	222
30	29.819	254	33.49	247	28.352	260	49.15	154	3.237	261	32.90	270	43.778	249	21.98	227
Juni 9	30.073	281	31.02	242	28.612	285	50.69	170	3.498	290	30.20	258	44.027	276	19.71	228
19	30.354	300	28.60	231	28.897	302	52.39	182	3.788	311	27.62	241	44.303	295	17.43	223
29	30.654	311	26.29	214	29.199	312	54.21	188	4.099	324	25.21	217	44.598	308	15.20	211
Juli 9	30.965	314	24.15	192	29.511	313	56.09	190	4.423	329	23.04	188	44.906	312	13.09	195
19	31.279	309	22.23	165	29.824	308	57.99	187	4.752	326	21.16	152	45.218	308	11.14	173
29	31.588	296	20.58	133	30.132	295	59.86	178	5.078	315	19.64	114	45.526	298	9.41	147
Aug. 8	31.884	278	19.25	98	30.427	276	61.64	167	5.393	296	18.50	72	45.824	280	7.94	117
18	32.162	253	18.27	62	30.703	253	63.31	150	5.689	271	17.78	29	46.104	257	6.77	84
28	32.415	224	17.65	24	30.956	225	64.81	132	5.960	242	17.49	13	46.361	231	5.93	50
Sept. 7	32.639	192	17.41	13	31.181	195	66.13	110	6.202	207	17.62	55	46.592	200	5.43	16
17	32.831	157	17.54	47	31.376	164	67.23	89	6.409	171	18.17	93	46.792	168	5.27	16
27	32.988	122	18.01	77	31.540	132	68.12	66	6.580	134	19.10	126	46.960	135	5.43	46
Okt. 7	33.110	88	18.78	103	31.672	100	68.78	46	6.714	96	20.36	152	47.095	102	5.89	72
17	33.198	54	19.81	123	31.772	70	69.24	25	6.810	59	21.88	172	47.197	70	6.61	92
	17				17				17				19			
26	33.252	22	21.04	136	31.842	40	69.49	7	6.869	24	23.60	183	47.267	39	7.53	109
Nov. 5	33.274	8	22.40	142	31.882	12	69.56	8	6.893	9	25.43	187	47.306	9	8.62	118
15	33.266	35	23.82	143	31.894	15	69.48	21	6.884	39	27.30	182	47.315	18	9.80	122
25	33.231	60	25.25	136	31.879	39	69.27	33	6.845	67	29.12	169	47.297	43	11.02	120
Dez. 5	33.171	83	26.61	124	31.840	62	68.94	42	6.778	91	30.81	151	47.254	67	12.22	113
15	33.088	103	27.85	107	31.778	84	68.52	49	6.687	113	32.32	126	47.187	88	13.35	102
25	32.985	118	28.92	86	31.694	102	68.03	54	6.574	129	33.58	97	47.099	106	14.37	88
35	32.867		29.78		31.592		67.49		6.445		34.55		46.993		15.25	
Mittl. Ort	30.726		35.29		29.128		54.12		4.201		36.39		44.639		21.66	
sec δ, tg δ	1.041		−0.291		1.012		+0.156		1.106		−0.473		1.017		−0.187	
a, *a′*	+2.9		+18.1		+3.2		+18.1		+2.8		+18.0		+3.0		+17.8	
b, *b′*	−0.02		−0.43		+0.01		−0.43		−0.03		−0.43		−0.01		−0.46	

[1]) Die jährliche Parallaxe (0.″298) ist bereits berücksichtigt.

Scheinbare Sternörter 1945

Tag	64) κ Trianguli AR.		Dekl.		63) ε Cassiopeiae AR.		Dekl.		65) ξ Piscium AR.		Dekl.		67) ψ Phoenicis AR.		Dekl.	
1945	1h 49m		+29° 18′		1h 50m		+63° 23′		1h 50m		+2° 54′		1h 51m		−46° 33′	
	s		″		s		″		s		″		s		″	
Jan. 0	55.850	138	43.39	21	24.75	36	70.62	65	41.759	112	52.91	66	26.202	224	99.23	74
10	55.712	155	43.18	45	24.39	39	71.27	12	41.647	125	52.25	61	25.978	235	99.97	24
20	55.557	165	42.73	67	24.00	41	71.39	41	41.522	133	51.64	55	25.743	238	100.21	27
30	55.392	166	42.06	88	23.59	40	70.98	93	41.389	135	51.09	46	25.505	234	99.94	77
Febr. 9	55.226	159	41.18	104	23.19	38	70.05	140	41.254	130	50.63	35	25.271	221	99.17	126
19	55.067	143	40.14	115	22.81	34	68.65	180	41.124	117	50.28	23	25.050	199	97.91	171
März 1	54.924	117	38.99	121	22.47	29	66.85	214	41.007	96	50.05	6	24.851	170	96.20	212
11	54.807	84	37.78	120	22.18	21	64.71	238	40.911	69	49.99	11	24.681	131	94.08	248
21	54.723	42	36.58	114	21.97	12	62.33	250	40.842	34	50.10	31	24.550	85	91.60	279
31	54.681	5	35.44	101	21.85	4	59.83	253	40.808	6	50.41	54	24.465	35	88.81	304
Apr. 10	54.686	55	34.43	82	21.81	6	57.30	245	40.814	48	50.95	76	24.430	20	85.77	323
20	54.741	107	33.61	58	21.87	16	54.85	227	40.862	93	51.71	99	24.450	79	82.54	336
30	54.848	157	33.03	32	22.03	25	52.58	201	40.955	137	52.70	122	24.529	136	79.18	341
Mai 10	55.005	205	32.71	1	22.28	33	50.57	168	41.092	180	53.92	144	24.665	192	75.77	339
20	55.210	247	32.70	30	22.61	41	48.89	128	41.272	218	55.36	161	24.857	245	72.38	329
30	55.457	284	33.00	61	23.02	47	47.61	85	41.490	250	56.97	177	25.102	292	69.09	311
Juni 9	55.741	311	33.61	92	23.49	53	46.76	38	41.740	276	58.74	188	25.394	332	65.98	287
19	56.052	331	34.53	119	24.02	55	46.38	8	42.016	296	60.62	194	25.726	363	63.11	255
29	56.383	342	35.72	144	24.57	58	46.46	56	42.312	307	62.56	196	26.089	384	60.56	216
Juli 9	56.725	345	37.16	164	25.15	59	47.02	102	42.619	310	64.52	191	26.473	396	58.40	173
19	57.070	339	38.80	182	25.74	57	48.04	145	42.929	306	66.43	183	26.869	397	56.67	123
29	57.409	326	40.62	193	26.31	56	49.49	185	43.235	295	68.26	169	27.266	387	55.44	71
Aug. 8	57.735	306	42.55	201	26.87	52	51.34	220	43.530	277	69.95	151	27.653	369	54.73	17
18	58.041	282	44.56	203	27.39	48	53.54	251	43.807	256	71.46	130	28.022	340	54.56	38
28	58.323	254	46.59	203	27.87	44	56.05	277	44.063	229	72.76	107	28.362	304	54.94	90
Sept. 7	58.577	221	48.62	197	28.31	38	58.82	297	44.292	200	73.83	81	28.666	261	55.84	139
17	58.798	187	50.59	189	28.69	32	61.79	311	44.492	170	74.64	56	28.927	214	57.23	182
27	58.985	154	52.48	177	29.01	25	64.90	320	44.662	138	75.20	31	29.141	164	59.05	217
Okt. 7	59.139	119	54.25	164	29.26	19	68.10	321	44.800	106	75.51	8	29.305	111	61.22	245
17	59.258	86	55.89	148	29.45	12	71.31	318	44.906	76	75.59	12	29.416	59	63.67	263
	19				19				19				19			
26	59.344	52	57.37	131	29.57	4	74.49	307	44.982	47	75.47	30	29.475	8	66.30	268
Nov. 5	59.396	19	58.68	111	29.61	2	77.56	288	45.029	18	75.17	44	29.483	39	68.98	264
15	59.415	12	59.79	91	29.59	9	80.44	264	45.047	9	74.73	54	29.444	84	71.62	249
25	59.403	43	60.70	69	29.50	16	83.08	231	45.038	34	74.19	62	29.360	124	74.11	223
Dez. 5	59.360	72	61.39	46	29.34	23	85.39	194	45.004	57	73.57	65	29.236	159	76.34	190
15	59.288	99	61.85	21	29.11	28	87.33	149	44.947	80	72.92	66	29.077	187	78.24	149
25	59.189	122	62.06	3	28.83	33	88.82	100	44.867	99	72.26	66	28.890	210	79.73	103
35	59.067		62.03		28.50		89.82		44.768		71.60		28.680		80.76	
Mittl. Ort	56.335		42.36		24.75		61.15		42.306		60.58		26.551		76.97	
sec δ, tg δ	1.147		+0.561		2.233		+1.997		1.001		+0.051		1.455		−1.056	
a, a′	+3.4		+17.8		+4.3		+17.8		+3.1		+17.8		+2.4		+17.7	
b, b′	+0.03		— 0.46		+0.12		— 0.46		0.00		— 0.46		−0.06		— 0.47	

Tag	66) β Arietis				68) χ Eridani				72) α Hydri				71) υ Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$1^h\ 51^m$		$+20°\ 32'$		$1^h\ 53^m$		$-51°\ 52'$		$1^h\ 56^m$		$-61°\ 49'$		$1^h\ 57^m$		$-21°\ 20'$	
	s		″		s		″		s		″		s		″	
Jan. 0	35.254	123	22.25	37	48.896	259	78.51	71	62.26	38	97.49	62	24.298	132	52.28	87
10	35.131	138	21.88	52	48.637	272	79.22	16	61.88	39	98.11	4	24.166	145	53.15	58
20	34.993	147	21.36	66	48.365	276	79.38	—37	61.49	40	98.15	—55	24.021	152	53.73	26
30	34.846	150	20.70	76	48.089	269	79.01	90	61.09	38	97.60	111	23.869	153	53.99	—7
Febr. 9	34.696	144	19.94	83	47.820	255	78.11	141	60.71	36	96.49	164	23.716	147	53.92	40
19	34.552	128	19.11	86	47.565	229	76.70	187	60.35	32	94.85	213	23.569	135	53.52	72
März 1	34.424	107	18.25	85	47.336	196	74.83	230	60.03	29	92.72	256	23.434	114	52.80	104
11	34.317	76	17.40	79	47.140	155	72.53	266	59.74	23	90.16	293	23.320	85	51.76	135
21	34.241	38	16.61	67	46.985	104	69.87	297	59.51	16	87.23	324	23.235	52	50.41	163
31	34.203	—5	15.94	51	46.881	48	66.90	323	59.35	9	83.99	347	23.183	11	48.78	190
Apr. 10	34.208	51	15.43	31	46.833	—12	63.67	340	59.26	2	80.52	362	23.172	—33	46.88	213
20	34.259	100	15.12	7	46.845	75	60.27	351	59.24	—6	76.90	371	23.205	78	44.75	232
30	34.359	148	15.05	—20	46.920	139	56.76	355	59.30	15	73.19	371	23.283	125	42.43	249
Mai 10	34.507	192	15.25	46	47.059	200	53.21	351	59.45	22	69.48	364	23.408	169	39.94	259
20	34.699	233	15.71	74	47.259	258	49.70	339	59.67	30	65.84	347	23.577	210	37.35	263
30	34.932	266	16.45	101	47.517	311	46.31	319	59.97	36	62.37	323	23.787	247	34.72	263
Juni 9	35.198	294	17.46	124	47.828	355	43.12	291	60.33	42	59.14	291	24.034	276	32.09	256
19	35.492	313	18.70	145	48.183	391	40.21	256	60.75	47	56.23	252	24.310	299	29.53	242
29	35.805	324	20.15	163	48.574	416	37.65	215	61.22	50	53.71	207	24.609	314	27.11	222
Juli 9	36.129	327	21.78	176	48.990	430	35.50	169	61.72	53	51.64	155	24.923	321	24.89	196
19	36.456	322	23.54	184	49.420	433	33.81	117	62.25	53	50.09	101	25.244	320	22.93	165
29	36.778	310	25.38	187	49.853	424	32.64	62	62.78	53	49.08	43	25.564	311	21.28	130
Aug. 8	37.088	291	27.25	187	50.277	404	32.02	6	63.31	51	48.65	—17	25.875	294	19.98	91
18	37.379	269	29.12	181	50.681	375	31.96	—51	63.82	47	48.82	75	26.169	273	19.07	50
28	37.648	241	30.93	173	51.056	336	32.47	104	64.29	42	49.57	131	26.442	246	18.57	9
Sept. 7	37.889	211	32.66	161	51.392	289	33.51	154	64.71	36	50.88	182	26.688	214	18.48	—32
17	38.100	180	34.27	146	51.681	237	35.05	199	65.07	29	52.70	226	26.902	181	18.80	69
27	38.280	148	35.73	130	51.918	180	37.04	234	65.36	22	54.96	262	27.083	146	19.49	103
Okt. 7	38.428	115	37.03	114	52.098	121	39.38	261	65.58	15	57.58	287	27.229	111	20.52	132
17	38.543	84	38.17	96	52.219	62	41.99	278	65.73	6	60.45	302	27.340	75	21.84	153
	19				20				21				21			
26	38.627	52	39.13	77	52.281	4	44.77	283	65.79	—2	63.47	304	27.415	42	23.37	167
Nov. 5	38.679	23	39.90	60	52.285	—51	47.60	276	65.77	10	66.51	294	27.457	9	25.04	173
15	38.702	—7	40.50	43	52.234	102	50.36	259	65.67	16	69.45	273	27.466	—21	26.77	173
25	38.695	34	40.93	25	52.132	148	52.95	231	65.51	23	72.18	241	27.445	50	28.50	164
Dez. 5	38.661	61	41.18	7	51.984	188	55.26	194	65.28	28	74.59	198	27.395	75	30.14	149
15	38.600	86	41.25	—9	51.796	219	57.20	151	65.00	33	76.57	150	27.320	98	31.63	128
25	38.514	108	41.16	26	51.577	246	58.71	101	64.67	36	78.07	96	27.222	119	32.91	103
35	38.406		40.90		51.331		59.72		64.31		79.03		27.103		33.94	
Mittl. Ort	35.765		24.03		49.147		55.24		62.23		72.68		24.769		36.75	
sec δ, tg δ	1.068		+0.375		1.620		—1.275		2.119		—1.868		1.074		—0.391	
a, *a′*	+3.3		+17.7		+2.3		+17.6		+1.9		+17.5		+2.8		+17.5	
b, *b′*	+0.02		— 0.47		—0.07		— 0.48		—0.11		— 0.49		—0.02		— 0.49	

Scheinbare Sternörter 1945

Tag	70) 50 Cassiopeiae				73) γ Andromedae *pr*				74) α Arietis				75) β Trianguli			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$1^h\ 58^m$		$+72°\ 9'$		$2^h\ 0^m$		$+42°\ 3'$		$2^h\ 4^m$		$+23°\ 12'$		$2^h\ 6^m$		$+34°\ 43'$	
	s		″		s		″		s		″		s		″	
Jan. 0	42.02	57	34.21	99	30.432	174	65.15	19	3.566	121	10.84	26	15.356	146	43.70	4
10	41.45	61	35.20	42	30.258	195	65.34	18	3.445	142	10.58	44	15.210	166	43.74	25
20	40.84	63	35.62	16	30.063	209	65.16	52	3.303	152	10.14	59	15.044	180	43.49	53
30	40.21	63	35.46	74	29.854	213	64.64	86	3.151	157	9.55	72	14.864	185	42.96	78
Febr. 9	39.58	60	34.72	129	29.641	205	63.78	115	2.994	153	8.83	83	14.679	181	42.18	101
19	38.98	54	33.43	176	29.436	187	62.63	140	2.841	141	8.00	89	14.498	167	41.17	119
März 1	38.44	46	31.67	216	29.249	157	61.23	157	2.700	119	7.11	92	14.331	141	39.98	131
11	37.98	35	29.51	247	29.092	118	59.66	167	2.581	89	6.19	87	14.190	107	38.67	136
21	37.63	24	27.04	266	28.974	69	57.99	170	2.492	51	5.32	79	14.083	64	37.31	135
31	37.39	10	24.38	275	28.905	15	56.29	165	2.441	8	4.53	66	14.019	15	35.96	127
Apr. 10	37.29	4	21.63	273	28.890	44	54.64	151	2.433	39	3.87	47	14.004	38	34.69	112
20	37.33	17	18.90	260	28.934	105	53.13	131	2.472	89	3.40	25	14.042	93	33.57	92
30	37.50	31	16.30	237	29.039	164	51.82	105	2.561	138	3.15	0	14.135	147	32.65	66
Mai 10	37.81	43	13.93	206	29.203	220	50.77	74	2.699	184	3.15	28	14.282	199	31.99	38
20	38.24	54	11.87	168	29.423	270	50.03	40	2.883	227	3.43	55	14.481	245	31.61	6
30	38.78	64	10.19	124	29.693	312	49.63	3	3.110	263	3.98	82	14.726	285	31.55	26
Juni 9	39.42	70	8.95	78	30.005	346	49.60	32	3.373	292	4.80	107	15.011	317	31.81	59
19	40.12	77	8.17	28	30.351	370	49.92	69	3.665	313	5.87	130	15.328	341	32.40	89
29	40.89	80	7.89	22	30.721	385	50.61	103	3.978	326	7.17	149	15.669	355	33.29	118
Juli 9	41.69	81	8.11	71	31.106	390	51.64	134	4.304	332	8.66	164	16.024	361	34.47	143
19	42.50	80	8.82	120	31.496	386	52.98	163	4.636	328	10.30	176	16.385	358	35.90	165
29	43.30	78	10.02	164	31.882	374	54.61	186	4.964	319	12.06	182	16.743	347	37.55	183
Aug. 8	44.08	75	11.66	205	32.256	354	56.47	205	5.283	302	13.88	184	17.090	330	39.38	195
18	44.83	69	13.71	243	32.610	327	58.52	221	5.585	280	15.72	183	17.420	307	41.33	205
28	45.52	63	16.14	275	32.937	297	60.73	231	5.865	254	17.55	176	17.727	280	43.38	208
Sept. 7	46.15	55	18.89	301	33.234	263	63.04	237	6.119	226	19.31	167	18.007	248	45.46	209
17	46.70	47	21.90	322	33.497	226	65.41	238	6.345	195	20.98	155	18.255	215	47.55	206
27	47.17	37	25.12	337	33.723	187	67.79	236	6.540	163	22.53	141	18.470	181	49.61	199
Okt. 7	47.54	28	28.49	345	33.910	148	70.15	228	6.703	131	23.94	126	18.651	145	51.60	189
17	47.82	17	31.94	346	34.058	108	72.43	218	6.834	99	25.20	110	18.796	110	53.49	177
26	[21] 47.99	7	35.40	339	[22] 34.166	68	74.61	204	[22] 6.933	67	26.30	93	[23] 18.906	74	55.26	162
Nov. 5	48.06	4	38.79	324	34.234	28	76.65	186	7.000	37	27.23	75	18.980	38	56.88	145
15	48.02	15	42.03	302	34.262	11	78.51	164	7.037	5	27.98	59	19.018	3	58.33	124
25	47.87	25	45.05	272	34.251	50	80.15	138	7.042	24	28.57	40	19.021	32	59.57	103
Dez. 5	47.62	35	47.77	233	34.201	88	81.53	110	7.018	54	28.97	23	18.989	66	60.60	78
15	47.27	45	50.10	188	34.113	123	82.63	77	6.964	80	29.20	5	18.923	97	61.38	52
25	46.82	52	51.98	136	33.990	153	83.40	43	6.884	106	29.25	13	18.826	127	61.90	23
35	46.30		53.34		33.837		83.83		6.778		29.12		18.699		62.13	
Mittl. Ort	41.48		23.65		30.770		60.65		4.004		11.90		15.724		41.32	
sec δ, tg δ	3.264		+3.107		1.347		+0.903		1.088		+0.429		1.217		+0.693	
a, *a′*	+5.1		+17.4		+3.7		+17.3		+3.4		+17.2		+3.6		+17.1	
b, *b′*	+0.18		— 0.50		+0.05		— 0.50		+0.02		— 0.52		+0.04		— 0.52	

Tag		76) 55 Cassiopeiae AR.		76) 55 Cassiopeiae Dekl.		78) μ Fornacis AR.		78) μ Fornacis Dekl.		80) 67 Ceti AR.		80) 67 Ceti Dekl.		85) ξ² Ceti AR.		85) ξ² Ceti Dekl.	
1945		2h 10m		+66° 15′		2h 10m		−30° 58′		2h 14m		−6° 40′		2h 25m		+8° 12′	
Jan.	0	8.43	39	74.27	97	28.831	153	69.75	99	13.878	111	39.76	82	13.477	103	46.52	55
	10	8.04	44	75.24	44	28.678	168	70.74	60	13.767	126	40.58	67	13.374	123	45.97	55
	20	7.60	46	75.68	$\overline{11}$	28.510	177	71.34	20	13.641	138	41.25	49	13.251	138	45.42	53
	30	7.14	46	75.57	65	28.333	180	71.54	$\overline{21}$	13.503	144	41.74	30	13.113	146	44.89	50
Febr.	9	6.68	45	74.92	116	28.153	175	71.33	62	13.359	142	42.04	$\underline{10}$	12.967	146	44.39	45
	19	6.23	41	73.76	161	27.978	162	70.71	101	13.217	132	42.14	12	12.821	138	43.94	37
März	1	5.82	35	72.15	199	27.816	142	69.70	139	13.085	115	42.02	34	12.683	122	43.57	26
	11	5.47	28	70.16	228	27.674	113	68.31	173	12.970	90	41.68	59	12.561	98	43.31	13
	21	5.19	19	67.88	248	27.561	77	66.58	206	12.880	58	41.09	82	12.463	65	43.18	$\overline{2}$
	31	5.00	$\underline{9}$	65.40	256	27.484	$\underline{35}$	64.52	233	12.822	$\underline{21}$	40.27	106	12.398	$\underline{27}$	43.20	21
Apr.	10	4.91	2	62.84	254	27.449	11	62.19	258	12.801	22	39.21	129	12.371	16	43.41	41
	20	4.93	12	60.30	242	27.460	59	59.61	276	12.823	67	37.92	152	12.387	61	43.82	63
	30	5.05	23	57.88	220	27.519	109	56.85	289	12.890	111	36.40	172	12.448	108	44.45	85
Mai	10	5.28	33	55.68	192	27.628	157	53.96	298	13.001	155	34.68	189	12.556	152	45.30	106
	20	5.61	41	53.76	156	27.785	202	50.98	298	13.156	195	32.79	203	12.708	194	46.36	127
	30	6.02	49	52.20	114	27.987	243	48.00	292	13.351	231	30.76	212	12.902	230	47.63	145
Juni	9	6.51	55	51.06	70	28.230	277	45.08	279	13.582	261	28.64	217	13.132	260	49.08	160
	19	7.06	60	50.36	24	28.507	305	42.29	260	13.843	284	26.47	216	13.392	285	50.68	171
	29	7.66	62	50.12	$\overline{23}$	28.812	324	39.69	233	14.127	299	24.31	209	13.677	300	52.39	177
Juli	9	8.28	65	50.35	69	29.136	335	37.36	200	14.426	307	22.22	196	13.977	309	54.16	179
	19	8.93	64	51.04	115	29.471	337	35.36	162	14.733	306	20.26	179	14.286	310	55.95	176
	29	9.57	62	52.19	156	29.808	330	33.74	120	15.039	300	18.47	157	14.596	304	57.71	167
Aug.	8	10.19	60	53.75	195	30.138	318	32.54	74	15.339	288	16.90	131	14.900	292	59.38	156
	18	10.79	57	55.70	230	30.456	296	31.80	26	15.627	268	15.59	101	15.192	275	60.94	140
	28	11.36	51	58.00	259	30.752	269	31.54	$\overline{21}$	15.895	245	14.58	70	15.467	253	62.34	121
Sept.	7	11.87	46	60.59	283	31.021	238	31.75	68	16.140	218	13.88	37	15.720	228	63.55	100
	17	12.33	39	63.42	303	31.259	203	32.43	110	16.358	189	13.51	5	15.948	201	64.55	78
	27	12.72	33	66.45	316	31.462	165	33.53	147	16.547	159	13.46	$\overline{24}$	16.149	172	65.33	56
Okt.	7	13.05	26	69.61	323	31.627	126	35.00	178	16.706	127	13.70	51	16.321	143	65.89	34
	17	13.31	18	72.84	323	31.753	87	36.78	201	16.833	97	14.21	73	16.464	114	66.23	$\underline{15}$
	26*)	[24] 13.49	10	76.07	318	[24] 31.840	49	38.79	215	[25] 16.930	66	14.94	90	[28] 16.578	84	66.38	3
Nov.	5	13.59	1	79.25	304	31.889	11	40.94	220	16.996	36	15.84	103	16.662	54	66.35	17
	15	13.60	$\overline{6}$	82.29	284	31.900	$\overline{24}$	43.14	216	17.032	8	16.87	110	16.716	24	66.18	29
	25	13.54	14	85.13	255	31.876	57	45.30	202	17.040	$\overline{21}$	17.97	111	16.740	$\overline{4}$	65.89	38
Dez.	5	13.40	22	87.68	221	31.819	87	47.32	181	17.019	47	19.08	107	16.736	32	65.51	45
	15	13.18	30	89.89	179	31.732	114	49.13	154	16.972	72	20.15	101	16.704	60	65.06	50
	25	12.88	35	91.68	131	31.618	137	50.67	120	16.900	94	21.16	88	16.644	86	64.56	52
	35	12.53		92.99		31.481		51.87		16.806		22.04		16.558		64.04	
Mittl. Ort		8.15		64.89		29.157		51.67		14.286		28.99		13.838		52.49	
sec δ, tg δ		2.485		+2.275		1.166		−0.600		1.007		−0.117		1.010		+0.144	
a, a'		+4.7		+16.9		+2.6		+16.9		+3.0		+16.7		+3.2		+16.2	
b, b'		+0.13		− 0.54		−0.03		− 0.54		−0.01		− 0.55		+0.01		− 0.59	

*) Bei Stern 85) lies Okt. 27.

Tag	87) 36 H. Cassiopeiae AR.		87) Dekl.		90) μ Hydri AR.		90) Dekl.		89) ν Arietis AR.		89) Dekl.		91) δ Ceti AR.		91) Dekl.	
1945	$2^h\ 32^m$		$+72°\ 34'$		$2^h\ 32^m$		$-79°\ 20'$		$2^h\ 35^m$		$+21°\ 43'$		$2^h\ 36^m$		$+0°\ 5'$	
	s		″		s		″		s		″		s		″	
Jan. 0	46.15	52	56.23	143	50.27	112	83.43	82	40.935	108	27.21	16	39.309	99	23.95	74
10	45.63	60	57.66	88	49.15	117	84.25	22	40.827	131	27.05	31	39.210	121	23.21	65
20	45.03	63	58.54	30	47.98	120	84.47	39	40.696	150	26.74	43	39.089	136	22.56	54
30	44.40	66	58.84	27	46.78	118	84.08	99	40.546	160	26.31	55	38.953	146	22.02	41
Febr. 9	43.74	64	58.57	83	45.60	115	83.09	155	40.386	163	25.76	64	38.807	149	21.61	28
19	43.10	61	57.74	136	44.45	107	81.54	206	40.223	156	25.12	70	38.658	143	21.33	12
März 1	42.49	54	56.38	181	43.38	98	79.48	252	40.067	140	24.42	72	38.515	129	21.21	6
11	41.95	44	54.57	218	42.40	85	76.96	291	39.927	114	23.70	71	38.386	106	21.27	24
21	41.51	33	52.39	246	41.55	70	74.05	323	39.813	80	22.99	65	38.280	75	21.51	44
31	41.18	21	49.93	262	40.85	54	70.82	349	39.733	38	22.34	53	38.205	39	21.95	65
Apr. 10	40.97	6	47.31	270	40.31	36	67.33	366	39.695	7	21.81	39	38.166	2	22.60	88
20	40.91	7	44.61	265	39.95	17	63.67	376	39.702	56	21.42	19	38.168	47	23.48	109
30	40.98	22	41.96	250	39.78	2	59.91	378	39.758	105	21.23	2	38.215	93	24.57	131
Mai 10	41.20	35	39.46	228	39.80	22	56.13	371	39.863	153	21.25	25	38.308	137	25.88	150
20	41.55	48	37.18	196	40.02	40	52.42	356	40.016	198	21.50	50	38.445	179	27.38	166
30	42.03	58	35.22	159	40.42	59	48.86	332	40.214	237	22.00	74	38.624	217	29.04	181
Juni 9	42.61	67	33.63	117	41.01	75	45.54	302	40.451	271	22.74	97	38.841	248	30.85	190
19	43.28	75	32.46	72	41.76	90	42.52	264	40.722	296	23.71	118	39.089	273	32.75	195
29	44.03	80	31.74	24	42.66	102	39.88	218	41.018	314	24.89	135	39.362	291	34.70	194
Juli 9	44.83	83	31.50	24	43.68	111	37.70	167	41.332	324	26.24	148	39.653	302	36.64	189
19	45.66	84	31.74	71	44.79	118	36.03	111	41.656	327	27.72	159	39.955	306	38.53	178
29	46.50	83	32.45	117	45.97	120	34.92	53	41.983	322	29.31	164	40.261	302	40.31	163
Aug. 8	47.33	81	33.62	160	47.17	120	34.39	8	42.305	311	30.95	165	40.563	291	41.94	143
18	48.14	78	35.22	200	48.37	115	34.47	69	42.616	294	32.60	163	40.854	277	43.37	120
28	48.92	72	37.22	236	49.52	107	35.16	128	42.910	273	34.23	157	41.131	257	44.57	94
Sept. 7	49.64	66	39.58	266	50.59	94	36.44	181	43.183	249	35.80	148	41.388	232	45.51	66
17	50.30	58	42.24	293	51.53	80	38.25	229	43.432	222	37.28	136	41.620	207	46.17	38
27	50.88	50	45.17	313	52.33	62	40.54	269	43.654	193	38.64	123	41.827	180	46.55	11
Okt. 7	51.38	40	48.30	328	52.95	43	43.23	298	43.847	164	39.87	108	42.007	150	46.66	14
17	51.78	30	51.58	335	53.38	21	46.21	316	44.011	133	40.95	94	42.157	121	46.52	36
27	(30) 52.08	20	54.93	337	(30) 53.59	1	49.37	322	(31) 44.144	102	41.89	80	(31) 42.278	92	46.16	54
Nov. 5	52.28	8	58.30	329	53.58	23	52.59	314	44.246	70	42.69	64	42.370	61	45.62	68
15	52.36	4	61.59	315	53.35	44	55.73	295	44.316	38	43.33	50	42.431	32	44.94	78
25	52.32	15	64.74	292	52.91	63	58.68	264	44.354	6	43.83	37	42.463	2	44.16	83
Dez. 5	52.17	26	67.66	262	52.28	81	61.32	222	44.360	26	44.20	22	42.465	26	43.33	84
15	51.91	38	70.28	222	51.47	95	63.54	172	44.334	58	44.42	8	42.439	55	42.49	81
25	51.53	47	72.50	176	50.52	106	65.26	117	44.276	87	44.50	6	42.384	81	41.68	77
35	51.06		74.26		49.46		66.43		44.189		44.44		42.303		40.91	
Mittl. Ort	45.19		46.73		47.24		58.49		41.223		29.07		39.608		32.44	
sec δ, tg δ	3.340		+3.187		5.411		−5.317		1.076		+0.398		1.000		+0.002	
a, a′	+5.7		+15.8		−1.3		+15.8		+3.4		+15.6		+3.1		+15.5	
b, b′	+0.17		− 0.62		−0.28		− 0.62		+0.02		− 0.63		0.00		− 0.63	

Tag	93) ϑ Persei AR.		93) ϑ Persei Dekl.		97) π Ceti AR.		97) π Ceti Dekl.		98) μ Ceti AR.		98) μ Ceti Dekl.		100) 41 Arietis AR.		100) 41 Arietis Dekl.	
1945	$2^h\ 40^m$		$+48°\ 59'$		$2^h\ 41^m$		$-14°\ 5'$		$2^h\ 41^m$		$+9°\ 52'$		$2^h\ 46^m$		$+27°\ 1'$	
	s		"		s		"		s		"		s		"	
Jan. 0	25.760	180	55.45	75	29.968	109	39.03	104	57.602	96	53.48	50	44.158	109	65.77	5
10	25.580	216	56.20	36	29.859	130	40.07	81	57.506	120	52.98	50	44.049	136	65.82	14
20	25.364	241	56.56	4	29.729	147	40.88	54	57.386	137	52.48	50	43.913	157	65.68	32
30	25.123	256	56.52	43	29.582	156	41.42	28	57.249	148	51.98	48	43.756	171	65.36	49
Febr. 9	24.867	257	56.09	81	29.426	159	41.70	1	57.101	152	51.50	45	43.585	175	64.87	63
19	24.610	246	55.28	115	29.267	153	41.69	29	56.949	147	51.05	38	43.410	170	64.24	77
März 1	24.364	221	54.13	143	29.114	140	41.40	58	56.802	133	50.67	31	43.240	154	63.47	84
11	24.143	183	52.70	164	28.974	117	40.82	86	56.669	110	50.36	19	43.086	129	62.63	87
21	23.960	133	51.06	178	28.857	87	39.96	114	56.559	80	50.17	5	42.957	94	61.76	87
31	23.827	75	49.28	184	28.770	51	38.82	140	56.479	42	50.12	11	42.863	52	60.89	80
Apr. 10	23.752	11	47.44	181	28.719	10	37.42	166	56.437	1	50.23	30	42.811	5	60.09	68
20	23.741	58	45.63	170	28.709	35	35.76	188	56.438	46	50.53	51	42.806	46	59.41	52
30	23.799	126	43.93	153	28.744	81	33.88	207	56.484	93	51.04	72	42.852	98	58.89	32
Mai 10	23.925	192	42.40	129	28.825	127	31.81	224	56.577	139	51.76	93	42.950	148	58.57	9
20	24.117	253	41.11	99	28.952	169	29.57	235	56.716	181	52.69	113	43.098	195	58.48	15
30	24.370	306	40.12	67	29.121	209	27.22	241	56.897	220	53.82	132	43.293	238	58.63	41
Juni 9	24.676	352	39.45	31	29.330	242	24.81	242	57.117	252	55.14	147	43.531	272	59.04	66
19	25.028	387	39.14	5	29.572	269	22.39	237	57.369	278	56.61	159	43.803	301	59.70	89
29	25.415	412	39.19	41	29.841	290	20.02	224	57.647	296	58.20	168	44.104	321	60.59	110
Juli 9	25.827	427	39.60	76	30.131	303	17.78	208	57.943	307	59.88	170	44.425	333	61.69	129
19	26.254	433	40.36	109	30.434	307	15.70	184	58.250	311	61.58	169	44.758	338	62.98	143
29	26.687	428	41.45	140	30.741	306	13.86	156	58.561	307	63.27	164	45.096	335	64.41	154
Aug. 8	27.115	416	42.85	166	31.047	298	12.30	123	58.868	299	64.91	153	45.431	325	65.95	161
18	27.531	396	44.51	189	31.345	283	11.07	88	59.167	283	66.44	139	45.756	310	67.56	164
28	27.927	370	46.40	208	31.628	263	10.19	49	59.450	264	67.83	122	46.066	290	69.20	163
Sept. 7	28.297	339	48.48	223	31.891	239	9.70	11	59.714	241	69.05	102	46.356	267	70.83	159
17	28.636	304	50.71	233	32.130	213	9.59	26	59.955	216	70.07	82	46.623	240	72.42	152
27	28.940	266	53.04	241	32.343	184	9.85	61	60.171	189	70.89	61	46.863	212	73.94	143
Okt. 7	29.206	225	55.45	242	32.527	153	10.46	92	60.360	161	71.50	40	47.075	181	75.37	133
17	29.431	181	57.87	240	32.680	121	11.38	117	60.521	131	71.90	22	47.256	151	76.70	122
27	29.612	136	60.27	235	32.801	90	12.55	137	60.652	102	72.12	-4	47.407	119	77.92	108
Nov. 6	^{1}29.748	89	62.62	223	^{1}32.891	58	13.92	149	^{1}60.754	73	72.16	10	^{2}47.526	85	79.00	96
15	29.837	41	64.85	208	32.949	27	15.41	155	60.827	42	72.06	21	47.611	51	79.96	82
25	29.878	9	66.93	188	32.976	5	16.96	154	60.869	11	71.85	31	47.662	17	80.78	66
Dez. 5	29.869	58	68.81	163	32.971	35	18.50	146	60.880	19	71.54	38	47.679	19	81.44	52
15	29.811	107	70.44	133	32.936	64	19.96	132	60.861	49	71.16	43	47.660	53	81.96	35
25	29.704	151	71.77	100	32.872	91	21.28	115	60.812	76	70.73	46	47.607	87	82.31	17
35	29.553		72.77		32.781		22.43		60.736		70.27		47.520		82.48	
Mittl. Ort	25.787		50.23		30.195		26.33		57.881		58.95		44.373		66.24	
sec δ, tg δ	1.524		+1.150		1.031		—0.251		1.015		+0.174		1.123		+0.510	
a, *a'*	+4.1		+15.3		+2.9		+15.3		+3.2		+15.2		+3.5		+15.0	
b, *b'*	+0.06		— 0.64		—0.01		— 0.65		+0.01		— 0.65		+0.03		— 0.67	

Scheinbare Sternörter 1945

Tag	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ^2 Eridani AR.		102) τ^2 Eridani Dekl.		103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
1945	$2^h\ 46^m$		$-32°\ 37'$		$2^h\ 48^m$		$-21°\ 13'$		$2^h\ 50^m$		$+52°\ 32'$		$2^h\ 53^m$		$-9°\ 6'$	
	s		″		s		″		s		″		s		″	
Jan. 0	47.250	148	86.94	130	32.406	118	61.76	119	20.687	194	25.80	95	44.120	98	68.46	100
10	47.102	170	88.24	91	32.288	140	62.95	88	20.493	234	26.75	56	44.022	122	69.46	80
20	46.932	186	89.15	48	32.148	158	63.83	57	20.259	264	27.31	13	43.900	141	70.26	60
30	46.746	197	89.63	5	31.990	169	64.40	22	19.995	283	27.44	29	43.759	153	70.86	38
Febr. 9	46.549	199	89.68	38	31.821	172	64.62	12	19.712	287	27.15	70	43.606	158	71.24	13
19	46.350	192	89.30	81	31.649	167	64.50	46	19.425	276	26.45	107	43.448	154	71.37	10
März 1	46.158	176	88.49	121	31.482	153	64.04	81	19.149	252	25.38	140	43.294	143	71.27	36
11	45.982	151	87.28	159	31.329	131	63.23	113	18.897	212	23.98	166	43.151	122	70.91	61
21	45.831	119	85.69	195	31.198	102	62.10	144	18.685	161	22.32	183	43.029	94	70.30	86
31	45.712	80	83.74	226	31.096	65	60.66	174	18.524	99	20.49	193	42.935	58	69.44	111
Apr. 10	45.632	34	81.48	253	31.031	22	58.92	200	18.425	30	18.56	194	42.877	18	68.33	135
20	45.598	14	78.95	276	31.009	23	56.92	223	18.395	43	16.62	187	42.859	26	66.98	158
30	45.612	65	76.19	293	31.032	70	54.69	242	18.438	116	14.75	172	42.885	71	65.40	179
Mai 10	45.677	116	73.26	304	31.102	117	52.27	256	18.554	187	13.03	150	42.956	117	63.61	196
20	45.793	165	70.22	308	31.219	161	49.71	266	18.741	253	11.53	123	43.073	160	61.65	210
30	45.958	209	67.14	305	31.380	203	47.05	268	18.994	312	10.30	90	43.233	199	59.55	219
Juni 9	46.167	248	64.09	296	31.583	238	44.37	266	19.306	363	9.40	56	43.432	234	57.36	223
19	46.415	282	61.13	278	31.821	268	41.71	255	19.669	402	8.84	19	43.666	261	55.13	222
29	46.697	307	58.35	254	32.089	291	39.16	239	20.071	433	8.65	19	43.927	283	52.91	215
Juli 9	47.004	325	55.81	222	32.380	306	36.77	216	20.504	451	8.84	55	44.210	296	50.76	202
19	47.329	334	53.59	185	32.686	313	34.61	188	20.955	459	9.39	91	44.506	304	48.74	184
29	47.663	335	51.74	142	32.999	313	32.73	153	21.414	458	10.30	123	44.810	303	46.90	160
Aug. 8	47.998	329	50.32	96	33.312	306	31.20	115	21.872	447	11.53	153	45.113	296	45.30	132
18	48.327	314	49.36	47	33.618	293	30.05	73	22.319	429	13.06	180	45.409	284	43.98	100
28	48.641	294	48.89	4	33.911	274	29.32	30	22.748	403	14.86	202	45.693	266	42.98	67
Sept. 7	48.935	268	48.93	54	34.185	250	29.02	13	23.151	372	16.88	221	45.959	245	42.31	31
17	49.203	237	49.47	101	34.435	222	29.15	56	23.523	337	19.09	235	46.204	219	42.00	4
27	49.440	203	50.48	143	34.657	193	29.71	94	23.860	297	21.44	245	46.423	193	42.04	37
Okt. 7	49.643	166	51.91	180	34.850	161	30.65	127	24.157	254	23.89	251	46.616	165	42.41	66
17	49.809	127	53.71	208	35.011	128	31.92	155	24.411	207	26.40	252	46.781	135	43.07	91
27	49.936	88	55.79	227	35.139	94	33.47	175	24.618	159	28.92	250	46.916	104	43.98	111
Nov. 5	2 50.024	49	58.06	237	3 35.233	60	35.22	187	3 24.777	108	31.42	241	4 47.020	73	45.09	126
15	50.073	10	60.43	238	35.293	27	37.09	192	24.885	54	33.83	227	47.093	43	46.35	133
25	50.083	27	62.81	228	35.320	7	39.01	187	24.939	1	36.10	209	47.136	11	47.68	135
Dez. 5	50.056	63	65.09	209	35.313	40	40.88	176	24.938	56	38.19	185	47.147	21	49.03	130
15	49.993	97	67.18	184	35.273	70	42.64	157	24.882	110	40.04	156	47.126	50	50.33	122
25	49.896	128	69.02	151	35.203	99	44.21	135	24.772	160	41.60	121	47.076	79	51.55	107
35	49.768		70.53		35.104		45.56		24.612		42.81		46.997		52.62	
Mittl. Ort	47.289		69.42		32.547		47.20		20.590		20.12		44.304		57.40	
sec δ, tg δ	1.187		−0.640		1.073		−0.388		1.644		+1.305		1.013		−0.160	
a, *a′*	+2.5		+15.0		+2.7		+14.9		+4.3		+14.8		+2.9		+14.6	
b, *b′*	−0.03		− 0.67		−0.02		− 0.67		+0.06		− 0.68		−0.01		− 0.69	

Tag	106) ϑ Eridani *pr* AR.		Dekl.		105) 47 H. Cephei AR.		Dekl.		107) α Ceti AR.		Dekl.		108) γ Persei AR.		Dekl.	
1945	$2^h\ 56^m$		$-40°\ 31'$		$2^h\ 58^m$		$+79°\ 11'$		$2^h\ 59^m$		$+3°\ 52'$		$3^h\ 0^m$		$+53°\ 17'$	
	s		"		s		"		s		"		s		"	
Jan. 0	10.652	174	45.96	144	43.71	82	84.27	192	23.875	89	23.31	66	48.032	188	39.21	107
10	10.478	200	47.40	99	42.89	95	86.19	137	23.786	114	22.65	61	47.844	232	40.28	69
20	10.278	220	48.39	52	41.94	103	87.56	80	23.672	134	22.04	53	47.612	266	40.97	26
30	10.058	231	48.91	3	40.91	109	88.36	19	23.538	148	21.51	44	47.346	288	41.23	$\overline{17}$
Febr. 9	9.827	234	48.94	$\overline{46}$	39.82	109	88.55	$\overline{42}$	23.390	155	21.07	34	47.058	295	41.06	58
19	9.593	227	48.48	93	38.73	105	88.13	100	23.235	153	20.73	22	46.763	288	40.48	97
März 1	9.366	211	47.55	138	37.68	96	87.13	152	23.082	142	20.51	8	46.475	265	39.51	131
11	9.155	185	46.17	180	36.72	83	85.61	199	22.940	122	20.43	$\overline{7}$	46.210	228	38.20	158
21	8.970	151	44.37	217	35.89	67	83.62	235	22.818	94	20.50	24	45.982	177	36.62	179
31	8.819	109	42.20	251	35.22	47	81.27	261	22.724	58	20.74	43	45.805	115	34.83	191
Apr. 10	8.710	61	39.69	280	34.75	26	78.66	277	22.666	18	21.17	62	45.690	47	32.92	194
20	8.649	8	36.89	303	34.49	4	75.89	282	22.648	$\overline{27}$	21.79	84	45.643	$\overline{27}$	30.98	190
30	8.641	$\overline{46}$	33.86	319	34.45	$\overline{19}$	73.07	276	22.675	73	22.63	104	45.670	101	29.08	177
Mai 10	8.687	102	30.67	329	34.64	40	70.31	260	22.748	118	23.67	124	45.771	174	27.31	158
20	8.789	155	27.38	332	35.04	60	67.71	236	22.866	161	24.91	141	45.945	243	25.73	132
30	8.944	205	24.06	327	35.64	78	65.35	204	23.027	201	26.32	157	46.188	304	24.41	101
Juni 9	9.149	250	20.79	314	36.42	95	63.31	166	23.228	235	27.89	169	46.492	357	23.40	68
19	9.399	287	17.65	292	37.37	107	61.65	123	23.463	262	29.58	176	46.849	400	22.72	32
29	9.686	319	14.73	265	38.44	118	60.42	77	23.725	284	31.34	180	47.249	433	22.40	$\overline{4}$
Juli 9	10.005	341	12.08	230	39.62	126	59.65	$\overline{29}$	24.009	297	33.14	178	47.682	454	22.44	41
19	10.346	354	9.78	188	40.88	129	59.36	20	24.306	304	34.92	172	48.136	466	22.85	77
29	10.700	359	7.90	140	42.17	131	59.56	68	24.610	303	36.64	160	48.602	467	23.62	109
Aug. 8	11.059	355	6.50	89	43.48	131	60.24	115	24.913	297	38.24	144	49.069	458	24.71	140
18	11.414	342	5.61	36	44.79	126	61.39	160	25.210	285	39.68	124	49.527	442	26.11	167
28	11.756	322	5.25	$\overline{19}$	46.05	120	62.99	201	25.495	269	40.92	102	49.969	419	27.78	191
Sept. 7	12.078	295	5.44	74	47.25	112	65.00	238	25.764	248	41.94	77	50.388	390	29.69	212
17	12.373	262	6.18	124	48.37	102	67.38	272	26.012	225	42.71	52	50.778	356	31.81	227
27	12.635	225	7.42	169	49.39	88	70.10	300	26.237	200	43.23	27	51.134	316	34.08	239
Okt. 7	12.860	185	9.11	208	50.27	75	73.10	322	26.437	173	43.50	4	51.450	275	36.47	247
17	13.045	141	11.19	239	51.02	59	76.32	338	26.610	145	43.54	$\overline{18}$	51.725	228	38.94	250
27	5 13.186	97	13.58	259	5 51.61	42	79.70	348	26.755	116	43.36	36	51.953	180	41.44	250
Nov. 5*)	13.283	51	16.17	269	52.03	23	83.18	349	26.871	86	43.00	50	52.133	127	43.94	243
15	13.334	7	18.86	269	52.26	4	86.67	341	6 26.957	55	42.50	61	6 52.260	72	46.37	231
25	13.341	$\overline{37}$	21.55	256	52.30	$\overline{16}$	90.08	326	27.012	25	41.89	67	52.332	15	48.68	215
Dez. 5	13.304	79	24.11	235	52.14	36	93.34	301	27.037	$\overline{7}$	41.22	70	52.347	$\overline{42}$	50.83	193
15	13.225	117	26.46	205	51.78	54	96.35	266	27.030	38	40.52	70	52.305	99	52.76	166
25	13.108	152	28.51	169	51.24	71	99.01	224	26.992	68	39.82	67	52.206	153	54.42	132
35	12.956		30.20		50.53		101.25		26.924		39.15		52.053		55.74	
Mittl. Ort	10.497		27.02		41.19		75.13		24.068		30.54		47.861		33.72	
sec δ, tg δ	1.316		−0.855		5.339		+5.244		1.002		+0.068		1.673		+1.341	
a, *a′*	+2.3		+14.4		+8.0		+14.3		+3.1		+14.2		+4.3		+14.1	
b, *b′*	−0.04		−0.70		+0.25		−0.70		0.00		−0.71		+0.06		−0.71	

*) Bei Stern 107) und 108) lies Nov. 6.

Tag	109) ρ Persei				110) μ Horologii				111) β Persei				114) δ Arietis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$3^h\ 1^m$		+38° 37′		$3^h\ 2^m$		−59° 56′		$3^h\ 4^m$		+40° 44′		$3^h\ 8^m$		+19° 31′	
	s		″		s		″		s		″		s		″	
Jan. 0	38.506	124	45.26	53	19.722	326	83.36	149	34.819	128	45.79	64	28.580	88	9.39	14
10	38.382	158	45.79	26	19.396	362	84.85	95	34.691	164	46.43	34	28.492	117	9.25	23
20	38.224	185	46.05	−2	19.034	388	85.80	38	34.527	193	46.77	4	28.375	141	9.02	31
30	38.039	203	46.03	32	18.646	401	86.18	−20	34.334	211	46.81	−26	28.234	158	8.71	40
Febr. 9	37.836	211	45.71	59	18.245	401	85.98	76	34.123	220	46.55	56	28.076	167	8.31	47
19	37.625	207	45.12	83	17.844	387	85.22	130	33.903	217	45.99	83	27.909	166	7.84	51
März 1	37.418	192	44.29	104	17.457	363	83.92	181	33.686	201	45.16	106	27.743	155	7.33	53
11	37.226	164	43.25	119	17.094	324	82.11	227	33.485	173	44.10	123	27.588	135	6.80	51
21	37.062	126	42.06	128	16.770	275	79.84	267	33.312	135	42.87	134	27.453	105	6.29	47
31	36.936	80	40.78	131	16.495	215	77.17	302	33.177	87	41.53	139	27.348	67	5.82	37
Apr. 10	36.856	26	39.47	128	16.280	148	74.15	330	33.090	32	40.14	137	27.281	25	5.45	25
20	36.830	−31	38.19	117	16.132	74	70.85	350	33.058	−27	38.77	128	27.256	−23	5.20	9
30	36.861	89	37.02	101	16.058	−3	67.35	364	33.085	87	37.49	113	27.279	72	5.11	−9
Mai 10	36.950	146	36.01	80	16.061	81	63.71	369	33.172	146	36.36	93	27.351	121	5.20	30
20	37.096	201	35.21	56	16.142	159	60.02	366	33.318	201	35.43	69	27.472	167	5.50	50
30	37.297	249	34.65	29	16.301	233	56.36	355	33.519	252	34.74	41	27.639	208	6.00	72
Juni 9	37.546	290	34.36	0	16.534	301	52.81	335	33.771	295	34.33	12	27.847	244	6.72	91
19	37.836	325	34.36	29	16.835	361	49.46	307	34.066	330	34.21	−18	28.091	275	7.63	109
29	38.161	350	34.65	57	17.196	411	46.39	270	34.396	356	34.39	47	28.366	297	8.72	123
Juli 9	38.511	366	35.22	84	17.607	451	43.69	227	34.752	374	34.86	75	28.663	312	9.95	135
19	38.877	374	36.06	108	18.058	478	41.42	177	35.126	383	35.61	101	28.975	319	11.30	143
29	39.251	374	37.14	130	18.536	492	39.65	122	35.509	384	36.62	124	29.294	321	12.73	147
Aug. 8	39.625	367	38.44	147	19.028	494	38.43	63	35.893	377	37.86	144	29.615	315	14.20	146
18	39.992	354	39.91	162	19.522	481	37.80	2	36.270	364	39.30	160	29.930	304	15.66	142
28	40.346	334	41.53	173	20.003	456	37.78	−59	36.634	344	40.90	174	30.234	288	17.08	135
Sept. 7	40.680	310	43.26	180	20.459	419	38.37	118	36.978	321	42.64	182	30.522	268	18.43	124
17	40.990	283	45.06	184	20.878	371	39.55	173	37.299	294	44.46	189	30.790	246	19.67	112
27	41.273	254	46.90	185	21.249	314	41.28	221	37.593	263	46.35	192	31.036	221	20.79	99
Okt. 7	41.527	221	48.75	184	21.563	249	43.49	261	37.856	230	48.27	191	31.257	194	21.78	85
17	41.748	187	50.59	179	21.812	179	46.10	291	38.086	195	50.18	189	31.451	166	22.63	71
27	41.935	150	52.38	172	21.991	105	49.01	311	38.281	158	52.07	183	31.617	136	23.34	57
Nov. 6	6 42.085	112	54.10	163	6 22.096	30	52.12	316	7 38.439	117	53.90	174	8 31.753	106	23.91	45
15	42.197	72	55.73	150	22.126	−44	55.28	311	38.556	76	55.64	163	31.859	73	24.36	34
25	42.269	30	57.23	135	22.082	116	58.39	294	38.632	33	57.27	148	31.932	39	24.70	23
Dez. 5	42.299	−13	58.58	117	21.966	183	61.33	264	38.665	−12	58.75	130	31.971	4	24.93	13
15	42.286	55	59.75	96	21.783	243	63.97	226	38.653	57	60.05	107	31.975	−30	25.06	3
25	42.231	96	60.71	72	21.540	296	66.23	179	38.596	99	61.12	83	31.945	65	25.09	−6
35	42.135		61.43		21.244		68.02		38.497		61.95		31.880		25.03	
Mittl. Ort	38.569		42.98		18.843		61.50		34.845		43.09		28.727		12.19	
sec δ, tg δ	1.280		+0.799		1.997		−1.729		1.320		+0.862		1.061		+0.354	
a, *a′*	+3.8		+14.1		+1.4		+14.0		+3.9		+13.9		+3.4		+13.6	
b, *b′*	+0.04		− 0.71		−0.08		− 0.71		+0.04		− 0.72		+0.02		− 0.73	

Tag		1090) 79 G. Fornacis AR.		Dekl.		115) 48 H. Cephei AR.		Dekl.		120) α Persei AR.		Dekl.		121) o Tauri AR.		Dekl.	
1945		$3^h\ 12^m$		$-35°\ 45'$		$3^h\ 13^m$		$+77°\ 31'$		$3^h\ 20^m$		$+49°\ 39'$		$3^h\ 21^m$		$+8°\ 50'$	
		s		"		s		"		s		"		s		"	
Jan.	0	30.432	146	58.10	156	18.10	65	76.79	202	23.217	148	66.04	110	50.880	77	6.30	51
	10	30.286	176	59.66	115	17.45	78	78.81	151	23.069	194	67.14	75	50.803	106	5.79	49
	20	30.110	198	60.81	72	16.67	86	80.32	95	22.875	230	67.89	38	50.697	131	5.30	46
	30	29.912	212	61.53	25	15.81	93	81.27	36	22.645	256	68.27	0	50.566	149	4.84	41
Febr.	9	29.700	220	61.78	$\overline{21}$	14.88	94	81.63	$\overline{23}$	22.389	270	68.27	38	50.417	160	4.43	37
	19	29.480	217	61.57	66	13.94	91	81.40	81	22.119	269	67.89	74	50.257	162	4.06	30
März	1	29.263	205	60.91	110	13.03	86	80.59	135	21.850	253	67.15	107	50.095	154	3.76	21
	11	29.058	183	59.81	151	12.17	75	79.24	182	21.597	224	66.08	134	49.941	137	3.55	11
	21	28.875	153	58.30	189	11.42	61	77.42	220	21.373	181	64.74	154	49.804	110	3.44	$\overline{2}$
	31	28.722	115	56.41	224	10.81	45	75.22	249	21.192	127	63.20	167	49.694	77	3.46	17
Apr.	10	28.607	70	54.17	253	10.36	28	72.73	268	21.065	65	61.53	173	49.617	37	3.63	34
	20	28.537	21	51.64	279	10.08	8	70.05	275	21.000	$\overline{1}$	59.80	171	49.580	$\overline{7}$	3.97	52
	30	28.516	$\overline{31}$	48.85	299	10.00	$\overline{11}$	67.30	273	21.001	71	58.09	161	49.587	54	4.49	70
Mai	10	28.547	83	45.86	311	10.11	30	64.57	260	21.072	140	56.48	145	49.641	100	5.19	90
	20	28.630	135	42.75	318	10.41	48	61.97	239	21.212	205	55.03	123	49.741	145	6.09	108
	30	28.765	183	39.57	318	10.89	65	59.58	211	21.417	265	53.80	97	49.886	186	7.17	125
Juni	9	28.948	227	36.39	309	11.54	79	57.47	175	21.682	317	52.83	67	50.072	222	8.42	139
	19	29.175	264	33.30	292	12.33	92	55.72	134	21.999	360	52.16	36	50.294	252	9.81	149
	29	29.439	296	30.38	270	13.25	101	54.38	91	22.359	395	51.80	2	50.546	276	11.30	157
Juli	9	29.735	318	27.68	238	14.26	109	53.47	45	22.754	418	51.78	$\overline{30}$	50.822	293	12.87	159
	19	30.053	333	25.30	201	15.35	114	53.02	$\overline{2}$	23.172	433	52.08	62	51.115	302	14.46	157
	29	30.386	340	23.29	157	16.49	116	53.04	49	23.605	438	52.70	92	51.417	306	16.03	151
Aug.	8	30.726	338	21.72	109	17.65	115	53.53	96	24.043	435	53.62	120	51.723	302	17.54	140
	18	31.064	330	20.63	58	18.80	114	54.49	139	24.478	424	54.82	144	52.025	294	18.94	126
	28	31.394	313	20.05	5	19.94	109	55.88	181	24.902	406	56.26	166	52.319	281	20.20	108
Sept.	7	31.707	291	20.00	$\overline{48}$	21.03	102	57.69	219	25.308	382	57.92	184	52.600	263	21.28	88
	17	31.998	264	20.48	99	22.05	94	59.88	253	25.690	354	59.76	199	52.863	243	22.16	67
	27	32.262	231	21.47	145	22.99	84	62.41	283	26.044	322	61.75	210	53.106	221	22.83	45
Okt.	7	32.493	195	22.92	185	23.83	72	65.24	306	26.366	285	63.85	218	53.327	196	23.28	24
	17	32.688	157	24.77	218	24.55	59	68.30	325	26.651	245	66.03	223	53.523	169	23.52	6
	27	32.845	117	26.95	242	25.14	44	71.55	336	26.896	201	68.26	223	53.692	141	23.58	$\overline{11}$
Nov.	6	9 32.962	76	29.37	256	9 25.58	29	74.91	340	11 27.097	154	70.49	219	11 53.833	112	23.47	25
	15	33.038	33	31.93	259	25.87	12	78.31	336	27.251	104	72.68	211	53.945	80	23.22	36
	25	33.071	$\overline{8}$	34.52	251	25.99	$\overline{6}$	81.67	323	27.355	51	74.79	199	54.025	48	22.86	42
Dez.	5	33.063	49	37.03	235	25.93	22	84.90	303	27.406	$\overline{3}$	76.78	181	54.073	15	22.44	48
	15	33.014	88	39.38	210	25.71	40	87.93	271	27.403	59	78.59	158	54.088	$\overline{20}$	21.96	49
	25	32.926	124	41.48	178	25.31	56	90.64	232	27.344	113	80.17	131	54.068	53	21.47	50
	35	32.802		43.26		24.75		92.96		27.231		81.48		54.015		20.97	
Mittl. Ort		30.240		40.86		15.85		68.41		23.030		61.89		50.979		12.04	
sec δ, tg δ		1.232		−0.720		4.633		+4.524		1.545		+1.178		1.012		+0.155	
a, a′		+2.4		+13.4		+7.6		+13.3		+4.3		+12.9		+3.2		+12.8	
b, b′		−0.03		− 0.74		+0.20		− 0.75		+0.05		− 0.77		+0.01		− 0.77	

Tag	122) 2 H. Camelop. AR.		122) Dekl.		125) 5 Tauri AR.		125) Dekl.		127) ε Eridani[1]) AR.		127) Dekl.		131) δ Persei AR.		131) Dekl.	
1945	$3^h\ 24^m$		$+59°\ 44'$		$3^h\ 27^m$		$+12°\ 44'$		$3^h\ 30^m$		$-9°\ 38'$		$3^h\ 38^m$		$+47°\ 36'$	
	s		″		s		″		s		″		s		″	
Jan. 0	36.257	210	68.05	152	49.871	73	53.88	36	20.212	86	46.34	112	60.113	119	51.86	114
10	36.047	268	69.57	112	49.798	105	53.52	38	20.126	114	47.46	92	59.994	168	53.00	84
20	35.779	315	70.69	67	49.693	130	53.14	37	20.012	139	48.38	71	59.826	208	53.84	51
30	35.464	348	71.36	20	49.563	151	52.77	38	19.873	157	49.09	46	59.618	238	54.35	15
Febr. 9	35.116	365	71.56	$\overline{26}$	49.412	163	52.39	37	19.716	167	49.55	22	59.380	257	54.50	$\overline{20}$
19	34.751	363	71.30	71	49.249	165	52.02	34	19.549	170	49.77	$\overline{4}$	59.123	261	54.30	54
März 1	34.388	343	70.59	113	49.084	158	51.68	30	19.379	163	49.73	30	58.862	251	53.76	86
11	34.045	305	69.46	149	48.926	142	51.38	23	19.216	147	49.43	55	58.611	226	52.90	113
21	33.740	250	67.97	178	48.784	116	51.15	14	19.069	122	48.88	82	58.385	190	51.77	135
31	33.490	183	66.19	199	48.668	82	51.01	2	18.947	90	48.06	107	58.195	141	50.42	149
Apr. 10	33.307	105	64.20	210	48.586	41	50.99	$\overline{13}$	18.857	52	46.99	132	58.054	84	48.93	157
20	33.202	20	62.10	214	48.545	$\overline{3}$	51.12	28	18.805	8	45.67	155	57.970	20	47.36	158
30	33.182	$\overline{67}$	59.96	209	48.548	50	51.40	47	18.797	$\overline{37}$	44.12	175	57.950	$\overline{46}$	45.78	152
Mai 10	33.249	154	57.87	195	48.598	97	51.87	66	18.834	83	42.37	193	57.996	112	44.26	138
20	33.403	236	55.92	174	48.695	142	52.53	84	18.917	127	40.44	208	58.108	176	42.88	120
30	33.639	311	54.18	148	48.837	185	53.37	101	19.044	168	38.36	218	58.284	236	41.68	97
Juni 9	33.950	378	52.70	117	49.022	221	54.38	118	19.212	206	36.18	222	58.520	288	40.71	71
19	34.328	435	51.53	82	49.243	253	55.56	130	19.418	237	33.96	222	58.808	333	40.00	42
29	34.763	479	50.71	45	49.496	277	56.86	139	19.655	263	31.74	217	59.141	369	39.58	13
Juli 9	35.242	511	50.26	$\overline{7}$	49.773	295	58.25	146	19.918	282	29.57	204	59.510	396	39.45	$\overline{18}$
19	35.753	533	50.19	31	50.068	305	59.71	147	20.200	293	27.53	187	59.906	414	39.63	46
29	36.286	542	50.50	67	50.373	309	61.18	144	20.493	298	25.66	163	60.320	422	40.09	74
Aug. 8	36.828	541	51.17	103	50.682	307	62.62	138	20.791	296	24.03	135	60.742	423	40.83	100
18	37.369	530	52.20	136	50.989	299	64.00	127	21.087	290	22.68	103	61.165	417	41.83	123
28	37.899	510	53.56	166	51.288	287	65.27	113	21.377	277	21.65	69	61.582	403	43.06	143
Sept. 7	38.409	482	55.22	192	51.575	270	66.40	97	21.654	260	20.96	32	61.985	384	44.49	161
17	38.891	448	57.14	216	51.845	251	67.37	79	21.914	240	20.64	$\overline{4}$	62.369	360	46.10	175
27	39.339	407	59.30	236	52.096	228	68.16	61	22.154	217	20.68	40	62.729	332	47.85	187
Okt. 7	39.746	360	61.66	250	52.324	205	68.77	43	22.371	192	21.08	71	63.061	299	49.72	195
17	40.106	308	64.16	262	52.529	178	69.20	26	22.563	163	21.79	99	63.360	264	51.67	200
27	40.414	251	66.78	267	52.707	151	69.46	11	22.726	135	22.78	121	63.624	223	53.67	203
Nov. 6	40.665	189	69.45	268	52.858	120	69.57	$\overline{2}$	22.861	104	23.99	136	63.847	179	55.70	202
15*)	12 40.854	122	72.13	262	13 52.978	89	69.55	13	13 22.965	72	25.35	146	16 64.026	131	57.72	197
25	40.976	51	74.75	251	53.067	56	69.42	20	23.037	38	26.81	149	64.157	80	59.69	188
Dez. 5	41.027	$\overline{21}$	77.26	233	53.123	21	69.22	26	23.075	5	28.30	145	64.237	26	61.57	174
15	41.006	93	79.59	208	53.144	$\overline{14}$	68.96	30	23.080	$\overline{30}$	29.75	135	64.263	$\overline{28}$	63.31	155
25	40.913	164	81.67	176	53.130	49	68.66	33	23.050	63	31.10	122	64.235	83	64.86	133
35	40.749		83.43		53.081		68.33		22.987		32.32		64.152		66.19	
Mittl. Ort	35.751		62.29		49.946		58.58		20.223		35.70		59.886		48.72	
sec δ, tg δ	1.985		+1.715		1.025		+0.226		1.014		−0.170		1.483		+1.096	
a, *a′*	+4.9		+12.6		+3.3		+12.4		+2.9		+12.2		+4.3		+11.6	
b, *b′*	+0.07		− 0.78		+0.01		− 0.79		−0.01		− 0.79		+0.04		− 0.82	

[1]) Die jährliche Parallaxe (0.″305) ist bereits berücksichtigt.

*) Bei Stern 131) lies Nov. 16.

Obere Kulmination Greenwich

Tag	134) ν Persei AR.		134) ν Persei Dekl.		141) β Reticuli AR.		141) β Reticuli Dekl.		139) η Tauri AR.		139) η Tauri Dekl.		140) τ^6 Eridani AR.		140) τ^6 Eridani Dekl.	
1945	$3^h\ 41^m$		+42° 24′		$3^h\ 43^m$		−64° 58′		$3^h\ 44^m$		+23° 56′		$3^h\ 44^m$		−23° 24′	
	s		″		s		″		s		″		s		″	
Jan. 0	27.060	101	25.77	93	31.99	37	66.28	198	12.599	68	9.79	13	29.014	95	52.93	161
10	26.959	145	26.70	67	31.62	42	68.26	145	12.531	104	9.92	3	28.919	127	54.54	129
20	26.814	182	27.37	39	31.20	47	69.71	89	12.427	135	9.95	8	28.792	155	55.83	97
30	26.632	211	27.76	9	30.73	50	70.60	32	12.292	160	9.87	20	28.637	176	56.80	60
Febr. 9	26.421	230	27.85	22	30.23	51	70.92	26	12.132	176	9.67	30	28.461	189	57.40	22
19	26.191	234	27.63	51	29.72	51	70.66	83	11.956	181	9.37	40	28.272	194	57.62	15
März 1	25.957	226	27.12	77	29.21	50	69.83	136	11.775	177	8.97	47	28.078	189	57.47	52
11	25.731	205	26.35	100	28.71	46	68.47	187	11.598	161	8.50	52	27.889	175	56.95	89
21	25.526	172	25.35	118	28.25	41	66.60	232	11.437	136	7.98	54	27.714	151	56.06	123
31	25.354	128	24.17	128	27.84	35	64.28	272	11.301	101	7.44	51	27.563	120	54.83	156
Apr. 10	25.226	76	22.89	134	27.49	28	61.56	306	11.200	58	6.93	45	27.443	81	53.27	186
20	25.150	18	21.55	132	27.21	20	58.50	334	11.142	12	6.48	34	27.362	38	51.41	213
30	25.132	43	20.23	124	27.01	11	55.16	354	11.130	38	6.14	21	27.324	9	49.28	236
Mai 10	25.175	104	18.99	111	26.90	2	51.62	366	11.168	88	5.93	5	27.333	56	46.92	254
20	25.279	163	17.88	93	26.88	7	47.96	370	11.256	137	5.88	13	27.389	104	44.38	267
30	25.442	218	16.95	70	26.95	16	44.26	365	11.393	183	6.01	32	27.493	149	41.71	274
Juni 9	25.660	267	16.25	46	27.11	25	40.61	353	11.576	223	6.33	51	27.642	189	38.97	275
19	25.927	308	15.79	20	27.36	33	37.08	330	11.799	257	6.84	69	27.831	226	36.22	269
29	26.235	342	15.59	7	27.69	40	33.78	300	12.056	285	7.53	84	28.057	256	33.53	255
Juli 9	26.577	366	15.66	34	28.09	46	30.78	261	12.341	306	8.37	99	28.313	280	30.98	235
19	26.943	383	16.00	59	28.55	50	28.17	214	12.647	319	9.36	110	28.593	297	28.63	209
29	27.326	391	16.59	82	29.05	55	26.03	162	12.966	326	10.46	117	28.890	305	26.54	175
Aug. 8	27.717	392	17.41	104	29.60	56	24.41	105	13.292	326	11.63	122	29.195	309	24.79	137
18	28.109	385	18.45	122	30.16	56	23.36	44	13.618	321	12.85	122	29.504	305	23.42	94
28	28.494	373	19.67	138	30.72	55	22.92	20	13.939	310	14.07	120	29.809	296	22.48	48
Sept. 7	28.867	356	21.05	151	31.27	52	23.12	82	14.249	296	15.27	114	30.105	281	22.00	1
17	29.223	335	22.56	160	31.79	49	23.94	142	14.545	278	16.41	108	30.386	262	21.99	45
27	29.558	308	24.16	168	32.28	42	25.36	197	14.823	257	17.49	99	30.648	239	22.44	89
Okt. 7	29.866	280	25.84	173	32.70	36	27.33	244	15.080	233	18.48	89	30.887	212	23.33	130
17	30.146	247	27.57	175	33.06	28	29.77	283	15.313	208	19.37	81	31.099	182	24.63	164
27	30.393	211	29.32	175	33.34	20	32.60	311	15.521	179	20.18	71	31.281	151	26.27	190
Nov. 6	30.604	171	31.07	172	33.54	11	35.71	327	15.700	148	20.89	62	31.432	117	28.17	210
16	30.775	128	32.79	167	33.65	1	38.98	329	15.848	114	21.51	53	31.549	80	30.27	220
25	16 30.903	83	34.46	158	17 33.66	8	42.27	320	17 15.962	78	22.04	46	17 31.629	43	32.47	220
Dez. 5	30.986	33	36.04	146	33.58	16	45.47	299	16.040	39	22.50	38	31.672	5	34.67	213
15	31.019	17	37.50	129	33.42	25	48.46	266	16.079	0	22.88	30	31.677	33	36.80	198
25	31.002	66	38.79	109	33.17	32	51.12	226	16.079	39	23.18	20	31.644	70	38.78	176
35	30.936		39.88		32.85		53.38		16.040		23.38		31.574		40.54	
Mittl. Ort	26.909		23.70		30.15		46.56		12.591		11.82		28.813		39.68	
sec δ, tg δ	1.354		+0.913		2.364		−2.143		1.094		+0.444		1.090		−0.433	
a, *a′*	+4.1		+11.4		+0.7		+11.2		+3.6		+11.2		+2.6		+11.2	
b, *b′*	+0.03		− 0.82		−0.08		− 0.83		+0.02		− 0.83		−0.02		− 0.83	

Tag	138) γ Camelop.				143) 138 G. Eridani				146) γ Hydri				1105) +57° 752 Caml			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$3^h\ 44^m$		+71° 9′		$3\ \ 47^m$		−36° 21′		$3^h\ 47^m$		−74° 24′		$3^h\ 49^m$		+57° 48′	
	s		″		s		″		s		″		s		″	
Jan. 0	32.36	34	62.39	211	24.102	129	72.24	188	67.73	64	48.51	194	14.969	160	53.82	164
10	32.02	43	64.50	168	23.973	164	74.12	148	67.09	73	50.45	141	14.809	221	55.46	128
20	31.59	51	66.18	119	23.809	194	75.60	106	66.36	80	51.86	84	14.588	274	56.74	88
30	31.08	57	67.37	66	23.615	216	76.66	60	65.56	84	52.70	26	14.314	314	57.62	46
Febr. 9	30.51	60	68.03	11	23.399	230	77.26	13	64.72	85	52.96	$\overline{32}$	14.000	339	58.08	1
19	29.91	61	68.14	$\overline{43}$	23.169	234	77.39	$\overline{34}$	63.87	85	52.64	89	13.661	346	58.09	$\overline{43}$
März 1	29.30	58	67.71	94	22.935	229	77.05	80	63.02	82	51.75	142	13.315	335	57.66	84
11	28.72	53	66.77	141	22.706	212	76.25	123	62.20	77	50.33	192	12.980	307	56.82	121
21	28.19	46	65.36	182	22.494	187	75.02	164	61.43	70	48.41	238	12.673	263	55.61	152
31	27.73	36	63.54	213	22.307	152	73.38	201	60.73	61	46.03	276	12.410	203	54.09	176
Apr. 10	27.37	24	61.41	235	22.155	111	71.37	235	60.12	50	43.27	309	12.207	133	52.33	192
20	27.13	12	59.06	249	22.044	64	69.02	265	59.62	37	40.18	336	12.074	56	50.41	200
30	27.01	$\overline{2}$	56.57	252	21.980	12	66.37	288	59.25	25	36.82	355	12.018	$\overline{26}$	48.41	199
Mai 10	27.03	14	54.05	245	21.968	$\overline{40}$	63.49	305	59.00	11	33.27	366	12.044	109	46.42	191
20	27.17	27	51.60	231	22.008	92	60.44	317	58.89	$\overline{3}$	29.61	369	12.153	189	44.51	175
30	27.44	40	49.29	209	22.100	143	57.27	320	58.92	17	25.92	363	12.342	263	42.76	154
Juni 9	27.84	49	47.20	180	22.243	190	54.07	316	59.09	30	22.29	349	12.605	331	41.22	127
19	28.33	60	45.40	146	22.433	231	50.91	304	59.39	43	18.80	327	12.936	389	39.95	97
29	28.93	66	43.94	109	22.664	267	47.87	285	59.82	55	15.53	295	13.325	436	38.98	65
Juli 9	29.59	73	42.85	68	22.931	296	45.02	258	60.37	65	12.58	255	13.761	473	38.33	31
19	30.32	78	42.17	26	23.227	317	42.44	222	61.02	73	10.03	209	14.234	500	38.02	$\overline{5}$
29	31.10	80	41.91	$\overline{16}$	23.544	331	40.22	181	61.75	79	7.94	156	14.734	515	38.07	39
Aug. 8	31.90	81	42.07	58	23.875	337	38.41	134	62.54	83	6.38	98	15.249	519	38.46	72
18	32.71	81	42.65	100	24.212	334	37.07	84	63.37	84	5.40	37	15.768	516	39.18	104
28	33.52	79	43.65	138	24.546	326	36.23	29	64.21	83	5.03	$\overline{26}$	16.284	504	40.22	133
Sept. 7	34.31	75	45.03	174	24.872	310	35.94	$\overline{26}$	65.04	79	5.29	89	16.788	483	41.55	160
17	35.06	72	46.77	207	25.182	288	36.20	79	65.83	73	6.18	148	17.271	456	43.15	183
27	35.78	65	48.84	237	25.470	262	36.99	129	66.56	64	7.66	202	17.727	422	44.98	204
Okt. 7	36.43	59	51.21	263	25.732	230	38.28	175	67.20	53	9.68	250	18.149	384	47.02	221
17	37.02	51	53.84	282	25.962	195	40.03	214	67.73	41	12.18	287	18.533	338	49.23	235
27	37.53	41	56.66	298	26.157	156	42.17	242	68.14	27	15.05	314	18.871	288	51.58	244
Nov. 6	37.94	32	59.64	307	26.313	115	44.59	262	68.41	13	18.19	329	19.159	230	54.02	248
16	38.26	21	62.71	308	26.428	73	47.21	272	68.54	$\overline{3}$	21.48	331	19.389	169	56.50	247
25	[17] 38.47	10	65.79	303	[18] 26.501	28	49.93	270	[18] 68.51	18	24.79	321	[18] 19.558	102	58.97	242
Dez. 5	38.57	$\overline{2}$	68.82	289	26.529	$\overline{16}$	52.63	258	68.33	32	28.00	298	19.660	31	61.39	228
15	38.55	15	71.71	266	26.513	60	55.21	237	68.01	46	30.98	265	19.691	$\overline{41}$	63.67	210
25	38.40	25	74.37	236	26.453	102	57.58	208	67.55	57	33.63	222	19.650	112	65.77	185
35	38.15		76.73		26.351		59.66		66.98		35.85		19.538		67.62	
Mittl. Ort	30.92		56.02		23.663		56.57		64.13		28.56		14.417		49.34	
sec δ, tg δ	3.098		+2.932		1.242		−0.736		3.720		−3.584		1.877		+1.589	
a, *a′*	+6.3		+11.2		+2.2		+11.0		−0.9		+10.9		+4.9		+10.8	
b, *b′*	+0.11		−0.83		−0.03		−0.84		−0.13		−0.84		+0.06		−0.84	

Tag	144) ζ Persei AR.		144) ζ Persei Dekl.		147) ε Persei AR.		147) ε Persei Dekl.	
1945	3h 50m		+31° 43′		3h 54m		+39° 51′	
	s		″		s		″	
Jan. 0	40.182	72	18.64	50	9.473	82	11.53	89
10	40.110	111	19.14	33	9.391	127	12.42	66
20	39.999	146	19.47	16	9.264	166	13.08	41
30	39.853	173	19.63	−3	9.098	197	13.49	15
Febr. 9	39.680	192	19.60	22	8.901	217	13.64	−13
19	39.488	199	19.38	40	8.684	225	13.51	39
März 1	39.289	194	18.98	56	8.459	221	13.12	63
11	39.095	179	18.42	69	8.238	203	12.49	85
21	38.916	151	17.73	77	8.035	174	11.64	101
31	38.765	115	16.96	82	7.861	133	10.63	112
Apr. 10	38.650	71	16.14	81	7.728	85	9.51	118
20	38.579	20	15.33	76	7.643	30	8.33	117
30	38.559	−33	14.57	66	7.613	−28	7.16	110
Mai 10	38.592	86	13.91	52	7.641	88	6.06	99
20	38.678	139	13.39	35	7.729	145	5.07	83
30	38.817	187	13.04	15	7.874	198	4.24	62
Juni 9	39.004	231	12.89	−5	8.072	247	3.62	41
19	39.235	269	12.94	27	8.319	289	3.21	17
29	39.504	298	13.21	46	8.608	322	3.04	−8
Juli 9	39.802	322	13.67	66	8.930	348	3.12	31
19	40.124	338	14.33	82	9.278	366	3.43	54
29	40.462	345	15.15	96	9.644	377	3.97	75
Aug. 8	40.807	347	16.11	108	10.021	379	4.72	93
18	41.154	343	17.19	116	10.400	376	5.65	110
28	41.497	333	18.35	122	10.776	366	6.75	123
Sept. 7	41.830	319	19.57	124	11.142	351	7.98	134
17	42.149	301	20.81	125	11.493	333	9.32	142
27	42.450	280	22.06	124	11.826	310	10.74	148
Okt. 7	42.730	256	23.30	121	12.136	284	12.22	152
17	42.986	228	24.51	117	12.420	254	13.74	154
27	43.214	199	25.68	113	12.674	220	15.28	155
Nov. 6	43.413	165	26.81	106	12.894	184	16.83	152
16	43.578	129	27.87	101	13.078	143	18.35	149
25	[-9] 43.707	89	28.88	93	[19] 13.221	98	19.84	141
Dez. 5	43.796	47	29.81	84	13.319	51	21.25	132
15	43.843	4	30.65	73	13.370	1	22.57	119
25	43.847	−41	31.38	60	13.371	−48	23.76	102
35	43.806		31.98		13.323		24.78	
Mittl. Ort	40.108		19.02		9.309		10.33	
sec δ, tg δ	1.176		+0.618		1.303		+0.835	
a, *a′*	+3.8		+10.7		+4.0		+10.5	
b, *b′*	+0.02		− 0.85		+0.03		− 0.85	

Tag	148) ξ Persei AR.		148) ξ Persei Dekl.		149) γ Eridani AR.		149) γ Eridani Dekl.	
1945	3h 55m		+35° 37′		3h 55m		−13° 39′	
	s		″		s		″	
Jan. 0	23.486	72	64.96	70	27.836	71	60.09	138
10	23.414	116	65.66	50	27.765	105	61.47	114
20	23.298	153	66.16	30	27.660	133	62.61	90
30	23.145	182	66.46	8	27.527	157	63.51	62
Febr. 9	22.963	202	66.54	−15	27.370	172	64.13	32
19	22.761	211	66.39	38	27.198	179	64.45	4
März 1	22.550	207	66.01	58	27.019	177	64.49	−27
11	22.343	191	65.43	74	26.842	164	64.22	56
21	22.152	163	64.69	88	26.678	144	63.66	85
31	21.989	125	63.81	95	26.534	114	62.81	113
Apr. 10	21.864	80	62.86	98	26.420	78	61.68	139
20	21.784	28	61.88	96	26.342	37	60.29	165
30	21.756	−28	60.92	87	26.305	−8	58.64	187
Mai 10	21.784	84	60.05	75	26.313	54	56.77	207
20	21.868	138	59.30	59	26.367	100	54.70	221
30	22.006	189	58.71	40	26.467	142	52.49	232
Juni 9	22.195	235	58.31	18	26.609	182	50.17	237
19	22.430	275	58.13	−3	26.791	217	47.80	236
29	22.705	307	58.16	26	27.008	246	45.44	229
Juli 9	23.012	331	58.42	46	27.254	268	43.15	217
19	23.343	349	58.88	66	27.522	285	40.98	197
29	23.692	359	59.54	84	27.807	295	39.01	172
Aug. 8	24.051	361	60.38	98	28.102	298	37.29	142
18	24.412	357	61.36	110	28.400	296	35.87	106
28	24.769	348	62.46	120	28.696	288	34.81	69
Sept. 7	25.117	335	63.66	127	28.984	275	34.12	29
17	25.452	317	64.93	131	29.259	260	33.83	−12
27	25.769	296	66.24	133	29.519	239	33.95	50
Okt. 7	26.065	271	67.57	134	29.758	217	34.45	86
17	26.336	243	68.91	134	29.975	191	35.31	118
27	26.579	211	70.25	131	30.166	162	36.49	143
Nov. 6	26.790	177	71.56	128	30.328	132	37.92	162
16	26.967	140	72.84	123	30.460	99	39.54	173
25	[20] 27.107	97	74.07	116	[20] 30.559	64	41.27	177
Dez. 5	27.204	53	75.23	108	30.623	28	43.04	174
15	27.257	6	76.31	95	30.651	−9	44.78	164
25	27.263	−41	77.26	82	30.642	46	46.42	148
35	27.222		78.08		30.596		47.90	
Mittl. Ort	23.364		64.63		27.688		49.35	
sec δ, tg δ	1.230		+0.717		1.029		−0.243	
a, *a′*	+3.9		+10.4		+2.8		+10.4	
b, *b′*	+0.02		− 0.86		−0.01		− 0.86	

Scheinbare Sternörter 1945

Tag		150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.	
1945		$3^h\ 57^m$		$+12°\ 20'$		$4^h\ 0^m$		$+5°\ 50'$	
		s		″		s		″	
Jan.	0	37.799	54	6.29	36	13.682	53	11.27	65
	10	37.745	89	5.93	36	13.629	88	10.62	58
	20	37.656	121	5.57	34	13.541	118	10.04	50
	30	37.535	145	5.23	33	13.423	143	9.54	42
Febr.	9	37.390	163	4.90	30	13.280	161	9.12	32
	19	37.227	170	4.60	27	13.119	168	8.80	22
März	1	37.057	169	4.33	22	12.951	168	8.58	11
	11	36.888	157	4.11	16	12.783	156	8.47	1
	21	36.731	135	3.95	8	12.627	135	8.48	15
	31	36.596	105	3.87	2	12.492	106	8.63	31
Apr.	10	36.491	67	3.89	15	12.386	70	8.94	46
	20	36.424	24	4.04	29	12.316	28	9.40	64
	30	36.400	22	4.33	45	12.288	17	10.04	82
Mai	10	36.422	68	4.78	61	12.305	62	10.86	99
	20	36.490	115	5.39	78	12.367	108	11.85	116
	30	36.605	158	6.17	95	12.475	151	13.01	130
Juni	9	36.763	198	7.12	108	12.626	189	14.31	142
	19	36.961	230	8.20	120	12.815	222	15.73	150
	29	37.191	259	9.40	129	13.037	251	17.23	156
Juli	9	37.450	280	10.69	134	13.288	272	18.79	156
	19	37.730	296	12.03	135	13.560	288	20.35	152
	29	38.026	303	13.38	132	13.848	296	21.87	144
Aug.	8	38.329	306	14.70	125	14.144	299	23.31	130
	18	38.635	302	15.95	114	14.443	296	24.61	113
	28	38.937	295	17.09	100	14.739	290	25.74	93
Sept.	7	39.232	283	18.09	85	15.029	278	26.67	70
	17	39.515	268	18.94	66	15.307	263	27.37	47
	27	39.783	249	19.60	48	15.570	245	27.84	22
Okt.	7	40.032	228	20.08	30	15.815	225	28.06	0
	17	40.260	205	20.38	13	16.040	202	28.06	21
	27	40.465	180	20.51	1	16.242	175	27.85	39
Nov.	6	40.645	150	20.50	13	16.417	148	27.46	53
	16	40.795	119	20.37	23	16.565	117	26.93	62
	25	[20] 40.914	86	20.14	28	[21] 16.682	84	26.31	69
Dez.	5	41.000	49	19.86	33	16.766	48	25.62	71
	15	41.049	11	19.53	35	16.814	11	24.91	71
	25	41.060	26	19.18	35	16.825	27	24.20	66
	35	41.034		18.83		16.798		23.54	
Mittl. Ort		37.761		11.08		13.625		17.52	
sec δ, tg δ		1.024		+0.219		1.005		+0.102	
a, *a′*		+3.3		+10.2		+3.2		+10.0	
b, *b′*		+0.01		— 0.86		0.00		— 0.87	

Tag		153) 174 G. Eridani AR.		153) 174 G. Eridani Dekl.		152) 48 Persei AR.		152) 48 Persei Dekl.	
1945		$4^h\ 3^m$		$-27°\ 47'$		$4^h\ 4^m$		$+47°\ 33'$	
		s		″		s		″	
Jan.	0	21.699	92	77.25	183	39.858	91	65.94	129
	10	21.607	128	79.08	150	39.767	144	67.23	103
	20	21.479	160	80.58	113	39.623	191	68.26	73
	30	21.319	184	81.71	73	39.432	227	68.99	40
Febr.	9	21.135	201	82.44	33	39.205	252	69.39	6
	19	20.934	208	82.77	8	38.953	264	69.45	28
März	1	20.726	207	82.69	49	38.689	261	69.17	61
	11	20.519	194	82.20	89	38.428	242	68.56	90
	21	20.325	174	81.31	127	38.186	211	67.66	115
	31	20.151	143	80.04	162	37.975	167	66.51	133
Apr.	10	20.008	106	78.42	195	37.808	113	65.18	145
	20	19.902	63	76.47	224	37.695	53	63.73	151
	30	19.839	16	74.23	249	37.642	12	62.22	149
Mai	10	19.823	33	71.74	268	37.654	79	60.73	141
	20	19.856	81	69.06	283	37.733	143	59.32	128
	30	19.937	128	66.23	291	37.876	204	58.04	110
Juni	9	20.065	172	63.32	292	38.080	260	56.94	88
	19	20.237	212	60.40	285	38.340	309	56.06	62
	29	20.449	245	57.55	272	38.649	348	55.44	36
Juli	9	20.694	272	54.83	251	38.997	380	55.08	9
	19	20.966	292	52.32	222	39.377	403	54.99	18
	29	21.258	307	50.10	188	39.780	417	55.17	45
Aug.	8	21.565	313	48.22	147	40.197	424	55.62	69
	18	21.878	314	46.75	102	40.621	422	56.31	93
	28	22.192	307	45.73	53	41.043	414	57.24	113
Sept.	7	22.499	296	45.20	3	41.457	401	58.37	132
	17	22.795	279	45.17	48	41.858	382	59.69	147
	27	23.074	258	45.65	95	42.240	358	61.16	161
Okt.	7	23.332	232	46.60	139	42.598	330	62.77	172
	17	23.564	203	47.99	177	42.928	297	64.49	181
	27	23.767	171	49.76	208	43.225	260	66.30	186
Nov.	6	23.938	135	51.84	229	43.485	218	68.16	190
	16	24.073	98	54.13	241	43.703	170	70.06	189
	25	[22] 24.171	58	56.54	245	[22] 43.873	119	71.95	185
Dez.	5	24.229	17	58.99	237	43.992	64	73.80	176
	15	24.246	24	61.36	222	44.056	7	75.56	162
	25	24.222	65	63.58	198	44.063	51	77.18	145
	35	24.157		65.56		44.012		78.63	
Mittl. Ort		21.334		63.97		39.534		63.67	
sec δ, tg δ		1.130		—0.527		1.482		+1.094	
a, *a′*		+2.5		+9.8		+4.4		+9.7	
b, *b′*		—0.02		—0.87		+0.04		—0.88	

Tag		154) o¹ Eridani AR.		Dekl.		155) α Horologii AR.		Dekl.		156) α Reticuli AR.		Dekl.		162) δ Tauri AR.		Dekl.	
1945		4h 9m		−6° 58′		4h 12m		−42° 25′		4h 13m		−62° 36′		4h 19m		+17° 24′	
		s		"		s		"		s		"		s		"	
Jan.	0	10.853	55	55.50	119	11.386	134	59.57	220	44.61	29	57.14	234	45.659	38	50.83	12
	10	10.798	90	56.69	101	11.252	177	61.77	180	44.32	36	59.48	186	45.621	76	50.71	14
	20	10.708	121	57.70	82	11.075	213	63.57	134	43.96	41	61.34	134	45.545	112	50.57	15
	30	10.587	147	58.52	60	10.862	242	64.91	86	43.55	45	62.68	79	45.433	142	50.42	18
Febr.	9	10.440	165	59.12	38	10.620	261	65.77	36	43.10	47	63.47	22	45.291	164	50.24	21
	19	10.275	174	59.50	14	10.359	270	66.13	$\overline{15}$	42.63	48	63.69	$\overline{35}$	45.127	176	50.03	22
März	1	10.101	174	59.64	$\overline{10}$	10.089	268	65.98	64	42.15	47	63.34	91	44.951	178	49.81	23
	11	9.927	164	59.54	34	9.821	255	65.34	111	41.68	46	62.43	142	44.773	170	49.58	23
	21	9.763	145	59.20	58	9.566	232	64.23	157	41.22	41	61.01	191	44.603	150	49.35	20
	31	9.618	118	58.62	82	9.334	199	62.66	198	40.81	37	59.10	236	44.453	121	49.15	16
Apr.	10	9.500	83	57.80	105	9.135	158	60.68	235	40.44	31	56.74	274	44.332	86	48.99	8
	20	9.417	43	56.75	129	8.977	109	58.33	267	40.13	23	54.00	307	44.246	43	48.91	$\overline{2}$
	30	9.374	$\overline{1}$	55.46	149	8.868	56	55.66	294	39.90	16	50.93	333	44.203	$\overline{3}$	48.93	14
Mai	10	9.375	45	53.97	168	8.812	1	52.72	315	39.74	8	47.60	352	44.206	51	49.07	28
	20	9.420	91	52.29	185	8.811	$\overline{55}$	49.57	328	39.66	$\overline{1}$	44.08	363	44.257	98	49.35	42
	30	9.511	134	50.44	197	8.866	110	46.29	335	39.67	9	40.45	365	44.355	143	49.77	57
Juni	9	9.645	173	48.47	205	8.976	163	42.94	332	39.76	18	36.80	358	44.498	184	50.34	72
	19	9.818	207	46.42	208	9.139	211	39.62	322	39.94	25	33.22	344	44.682	220	51.06	85
	29	10.025	237	44.34	205	9.350	254	36.40	303	40.19	33	29.78	319	44.902	250	51.91	95
Juli	9	10.262	261	42.29	198	9.604	289	33.37	276	40.52	39	26.59	286	45.152	276	52.86	104
	19	10.523	277	40.31	184	9.893	317	30.61	242	40.91	43	23.73	245	45.428	293	53.90	108
	29	10.800	289	38.47	164	10.210	339	28.19	199	41.34	48	21.28	196	45.721	304	54.98	109
Aug.	8	11.089	294	36.83	140	10.549	351	26.20	150	41.82	50	19.32	141	46.025	311	56.07	107
	18	11.383	292	35.43	112	10.900	355	24.70	97	42.32	52	17.91	82	46.336	311	57.14	101
	28	11.675	288	34.31	79	11.255	352	23.73	41	42.84	52	17.09	20	46.647	306	58.15	93
Sept.	7	11.963	277	33.52	45	11.607	340	23.32	18	43.36	50	16.89	$\overline{44}$	46.953	298	59.08	82
	17	12.240	264	33.07	10	11.947	322	23.50	76	43.86	48	17.33	107	47.251	285	59.90	69
	27	12.504	246	32.97	$\overline{25}$	12.269	298	24.26	131	44.34	43	18.40	166	47.536	270	60.59	56
Okt.	7	12.750	226	33.22	58	12.567	267	25.57	181	44.77	38	20.06	218	47.806	252	61.15	42
	17	12.976	203	33.80	86	12.834	230	27.38	224	45.15	32	22.24	263	48.058	230	61.57	30
	27	13.179	177	34.66	110	13.064	190	29.62	259	45.47	25	24.87	299	48.288	206	61.87	18
Nov.	6	13.356	149	35.76	128	13.254	145	32.21	283	45.72	16	27.86	322	48.494	178	62.05	10
	16	13.505	117	37.04	140	13.399	98	35.04	296	45.88	8	31.08	333	48.672	147	62.15	2
	25*)	[23] 13.622	82	38.44	145	[24] 13.497	47	38.00	298	[24] 45.96	0	34.41	332	48.819	112	62.17	$\overline{2}$
Dez.	5	13.704	47	39.89	144	13.544	$\overline{3}$	40.98	288	45.96	9	37.73	318	[26] 48.931	73	62.15	6
	15	13.751	10	41.33	139	13.541	54	43.86	270	45.87	17	40.91	294	49.004	34	62.09	9
	25	13.761	$\overline{29}$	42.72	126	13.487	104	46.56	240	45.70	25	43.85	259	49.038	$\overline{8}$	62.00	10
	35	13.732		43.98		13.383		48.96		45.45		46.44		49.030		61.90	
Mittl. Ort		10.702		46.60		10.626		44.43		42.66		39.95		45.548		54.55	
sec δ, tg δ		1.007		−0.122		1.355		−0.914		2.174		−1.930		1.048		+0.314	
a, *a′*		+2.9		+9.3		+2.0		+9.1		+0.8		+9.0		+3.5		+8.5	
b, *b′*		0.00		−0.89		−0.03		−0.89		−0.06		−0.89		+0.01		−0.91	

*) Bei Stern 162 -8 Nov. 26.

Tag	164) ε Tauri				168) α Tauri				171) α Doradus				169) ν Eridani			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1945	4h 25m		+19° 3′		4h 32m		+16° 23′		4h 32m		−55° 9′		4h 33m		−3° 27′	
	s		″		s		″		s		″		s		″	
Jan. 0	24.197	34	33.03	3	45.835	26	57.33	17	49.807	191	43.76	253	34.325	34	56.03	112
10	24.163	73	33.00	6	45.809	68	57.16	17	49.616	248	46.29	210	34.291	72	57.15	98
20	24.090	110	32.94	10	45.741	105	56.99	17	49.368	297	48.39	162	34.219	107	58.13	81
30	23.980	142	32.84	12	45.636	136	56.82	18	49.071	335	50.01	109	34.112	137	58.94	61
Febr. 9	23.838	164	32.72	17	45.500	160	56.64	18	48.736	363	51.10	55	33.975	160	59.55	43
19	23.674	178	32.55	20	45.340	176	56.46	19	48.373	376	51.65	1	33.815	173	59.98	22
März 1	23.496	181	32.35	23	45.164	179	56.27	19	47.997	378	51.64	54	33.642	177	60.20	1
11	23.315	173	32.12	24	44.985	173	56.08	17	47.619	366	51.10	107	33.465	171	60.21	20
21	23.142	154	31.88	24	44.812	156	55.91	15	47.253	341	50.03	157	33.294	155	60.01	41
31	22.988	126	31.64	20	44.656	129	55.76	10	46.912	304	48.46	203	33.139	131	59.60	62
Apr. 10	22.862	91	31.44	15	44.527	95	55.66	2	46.608	256	46.43	243	33.008	99	58.98	84
20	22.771	48	31.29	6	44.432	54	55.64	7	46.352	201	44.00	280	32.909	60	58.14	104
30	22.723	2	31.23	4	44.378	9	55.71	18	46.151	139	41.20	310	32.849	18	57.10	125
Mai 10	22.721	46	31.27	17	44.369	38	55.89	32	46.012	71	38.10	332	32.831	26	55.85	143
20	22.767	94	31.44	32	44.407	85	56.21	45	45.941	2	34.78	348	32.857	70	54.42	159
30	22.861	139	31.76	46	44.492	130	56.66	59	45.939	67	31.30	356	32.927	113	52.83	172
Juni 9	23.000	181	32.22	60	44.622	171	57.25	72	46.006	136	27.74	355	33.040	154	51.11	181
19	23.181	218	32.82	73	44.793	208	57.97	84	46.142	199	24.19	345	33.194	190	49.30	187
29	23.399	249	33.55	85	45.001	240	58.81	94	46.341	258	20.74	325	33.384	221	47.43	187
Juli 9	23.648	274	34.40	93	45.241	266	59.75	100	46.599	311	17.49	298	33.605	246	45.56	182
19	23.922	294	35.33	99	45.507	285	60.75	105	46.910	354	14.51	262	33.851	266	43.74	171
29	24.216	305	36.32	102	45.792	298	61.80	104	47.264	388	11.89	217	34.117	280	42.03	156
Aug. 8	24.521	312	37.34	101	46.090	306	62.84	101	47.652	413	9.72	165	34.397	288	40.47	136
18	24.833	314	38.35	97	46.396	308	63.85	94	48.065	428	8.07	109	34.685	291	39.11	110
28	25.147	310	39.32	90	46.704	307	64.79	85	48.493	432	6.98	49	34.976	290	38.01	82
Sept. 7	25.457	302	40.22	80	47.011	299	65.64	73	48.925	425	6.49	14	35.266	283	37.19	50
17	25.759	291	41.02	70	47.310	289	66.37	60	49.350	407	6.63	77	35.549	274	36.69	18
27	26.050	276	41.72	57	47.599	276	66.97	45	49.757	380	7.40	137	35.823	260	36.51	15
Okt. 7	26.326	258	42.29	46	47.875	259	67.42	31	50.137	343	8.77	193	36.083	243	36.66	45
17	26.584	238	42.75	35	48.134	240	67.73	18	50.480	297	10.70	241	36.326	223	37.11	73
27	26.822	213	43.10	25	48.374	216	67.91	7	50.777	244	13.11	280	36.549	200	37.84	96
Nov. 6	27.035	185	43.35	17	48.590	190	67.98	2	51.021	185	15.91	309	36.749	173	38.80	114
16	27.220	155	43.52	11	48.780	158	67.96	9	51.206	121	19.00	326	36.922	142	39.94	127
26	27.375	119	43.63	6	48.938	125	67.87	13	51.327	53	22.26	330	37.064	109	41.21	133
Dez. 5	[27] 27.494	80	43.69	3	[29] 49.063	86	67.74	15	[29] 51.380	16	25.56	323	[29] 37.173	73	42.54	133
15	27.574	40	43.72	1	49.149	46	67.59	17	51.364	85	28.79	304	37.246	34	43.87	128
25	27.614	3	43.73	1	49.195	3	67.42	16	51.279	151	31.83	274	37.280	6	45.15	119
35	27.611		43.72		49.198		67.26		51.128		34.57		37.274		46.34	
Mittl. Ort	24.068		36.45		45.688		61.27		48.301		28.74		34.114		48.44	
sec δ, tg δ	1.058		+0.346		1.042		+0.294		1.750		−1.437		1.002		−0.061	
a, *a′*	+3.5		+8.0		+3.4		+7.4		+1.3		+7.4		+3.0		+7.4	
b, *b′*	+0.01		−0.92		+0.01		−0.93		−0.04		−0.93		0.00		−0.93	

Tag		172) 53 Eridani				174) τ Tauri				173) Grb 848 Caml				175) 4 Camelopard.			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$4^h\ 35^m$		−14° 24′		$4^h\ 38^m$		+22° 51′		$4^h\ 41^m$		+75° 50′		$4^h\ 43^m$		+56° 39′	
		s		″		s		″		s		″		s		″	
Jan.	0	39.915	45	46.27	160	56.571	22	8.61	17	26.30	28	45.76	268	25.439	69	45.09	190
	10	39.870	83	47.87	137	56.549	66	8.78	13	26.02	43	48.44	236	25.370	143	46.99	166
	20	39.787	118	49.24	111	56.483	106	8.91	8	25.59	57	50.80	194	25.227	209	48.65	135
	30	39.669	148	50.35	83	56.377	140	8.99	2	25.02	69	52.74	146	25.018	264	50.00	101
Febr.	9	39.521	171	51.18	53	56.237	166	9.01	6	24.33	76	54.20	93	24.754	305	51.01	61
	19	39.350	184	51.71	23	56.071	182	8.95	12	23.57	81	55.13	38	24.449	331	51.62	19
März	1	39.166	189	51.94	8	55.889	188	8.83	20	22.76	83	55.51	19	24.118	338	51.81	22
	11	38.977	182	51.86	39	55.701	181	8.63	26	21.93	79	55.32	74	23.780	328	51.59	61
	21	38.795	167	51.47	69	55.520	165	8.37	29	21.14	73	54.58	123	23.452	300	50.98	98
	31	38.628	143	50.78	99	55.355	138	8.08	30	20.41	63	53.35	168	23.152	256	50.00	129
Apr.	10	38.485	111	49.79	126	55.217	103	7.78	29	19.78	51	51.67	205	22.896	199	48.71	154
	20	38.374	73	48.53	152	55.114	61	7.49	24	19.27	36	49.62	232	22.697	131	47.17	171
	30	38.301	30	47.01	176	55.053	15	7.25	16	18.91	20	47.30	252	22.566	57	45.46	182
Mai	10	38.271	14	45.25	197	55.038	34	7.09	6	18.71	4	44.78	260	22.509	21	43.64	186
	20	38.285	60	43.28	214	55.072	83	7.03	6	18.67	13	42.18	261	22.530	99	41.78	181
	30	38.345	103	41.14	227	55.155	130	7.09	20	18.80	30	39.57	253	22.629	175	39.97	171
Juni	9	38.448	145	38.87	234	55.285	173	7.29	33	19.10	45	37.04	236	22.804	247	38.26	156
	19	38.593	183	36.53	235	55.458	211	7.62	46	19.55	59	34.68	214	23.051	311	36.70	135
	29	38.776	215	34.18	231	55.669	245	8.08	59	20.14	73	32.54	186	23.362	366	35.35	112
Juli	9	38.991	242	31.87	220	55.914	272	8.67	69	20.87	83	30.68	152	23.728	414	34.23	85
	19	39.233	264	29.67	202	56.186	293	9.36	77	21.70	92	29.16	115	24.142	451	33.38	57
	29	39.497	279	27.65	179	56.479	308	10.13	82	22.62	98	28.01	76	24.593	479	32.81	27
Aug.	8	39.776	290	25.86	150	56.787	317	10.95	84	23.60	104	27.25	35	25.072	498	32.54	3
	18	40.066	293	24.36	116	57.104	320	11.79	84	24.64	107	26.90	6	25.570	508	32.57	31
	28	40.359	292	23.20	77	57.424	319	12.63	81	25.71	108	26.96	48	26.078	509	32.88	60
Sept.	7	40.651	287	22.43	36	57.743	313	13.44	75	26.79	107	27.44	89	26.587	504	33.48	86
	17	40.938	276	22.07	5	58.056	303	14.19	69	27.86	104	28.33	129	27.091	491	34.34	112
	27	41.214	262	22.12	47	58.359	291	14.88	60	28.90	99	29.62	167	27.582	471	35.46	136
Okt.	7	41.476	246	22.59	85	58.650	274	15.48	53	29.89	93	31.29	202	28.053	445	36.82	158
	17	41.722	223	23.44	119	58.924	255	16.01	45	30.82	85	33.31	233	28.498	411	38.40	178
	27	41.945	198	24.63	149	59.179	232	16.46	39	31.67	75	35.64	262	28.909	370	40.18	195
Nov.	6	42.143	170	26.12	171	59.411	204	16.85	33	32.42	62	38.26	284	29.279	322	42.13	208
	16	42.313	138	27.83	186	59.615	172	17.18	29	33.04	49	41.10	301	29.601	266	44.21	218
	26	42.451	103	29.69	193	59.787	137	17.47	25	33.53	34	44.11	309	29.867	202	46.39	223
Dez.	5	30 42.554	65	31.62	192	1 59.924	97	17.72	24	1 33.87	18	47.20	311	2 30.069	132	48.62	224
	15	42.619	25	33.54	185	60.021	54	17.96	23	34.05	1	50.31	302	30.201	59	50.86	216
	25	42.644	16	35.39	170	60.075	11	18.19	19	34.06	17	53.33	285	30.260	18	53.02	203
	35	42.628		37.09		60.086		18.38		33.89		56.18		30.242		55.05	
Mittl. Ort		39.599		36.83		56.398		11.44		23.68		41.89		24.734		43.07	
sec δ, tg δ		1.032		−0.257		1.085		+0.421		4.089		+3.965		1.820		+1.520	
a, *a′*		+2.8		+7.2		+3.6		+6.9		+8.1		+6.7		+5.0		+6.6	
b, *b′*		−0.01		−0.93		+0.01		−0.94		+0.09		−0.94		+0.03		−0.94	

Tag	178) α Camelopard. AR.	178) α Camelopard. Dekl.	180) π^5 Orionis AR.	180) π^5 Orionis Dekl.	181) ι Aurigae AR.	181) ι Aurigae Dekl.	183) ε Aurigae AR.	183) ε Aurigae Dekl.
1945	$4^h\ 48^m$	$+66°\ 14'$	$4^h\ 51^m$	$+2°\ 20'$	$4^h\ 53^m$	$+33°\ 4'$	$4^h\ 57^m$	$+43°\ 44'$
	s	"	s	"	s	"	s	"
Jan. 0	35.25 12	70.82 236	23.261 16	61.63 90	24.710 13	49.96 73	61.410 18	38.50 132
10	35.13 21	73.18 208	23.245 57	60.73 78	24.697 63	50.69 65	61.392 76	39.82 118
20	34.92 31	75.26 173	23.188 95	59.95 66	24.634 109	51.34 53	61.316 130	41.00 98
30	34.61 37	76.99 132	23.093 127	59.29 52	24.525 149	51.87 39	61.186 176	41.98 75
Febr. 9	34.24 44	78.31 85	22.966 152	58.77 37	24.376 180	52.26 22	61.010 213	42.73 49
19	33.80 47	79.16 36	22.814 170	58.40 23	24.196 201	52.48 4	60.797 238	43.22 20
März 1	33.33 48	79.52 $\overline{13}$	22.644 177	58.17 8	23.995 209	52.52 $\overline{14}$	60.559 248	43.42 $\overline{9}$
11	32.85 46	79.39 60	22.467 173	58.09 $\overline{7}$	23.786 206	52.38 31	60.311 244	43.33 36
21	32.39 43	78.79 105	22.294 161	58.16 24	23.580 190	52.07 45	60.067 227	42.97 62
31	31.96 37	77.74 144	22.133 138	58.40 40	23.390 162	51.62 57	59.840 196	42.35 84
Apr. 10	31.59 30	76.30 176	21.995 108	58.80 56	23.228 125	51.05 64	59.644 154	41.51 101
20	31.29 21	74.54 201	21.887 71	59.36 74	23.103 81	50.41 69	59.490 104	40.50 112
30	31.08 11	72.53 217	21.816 30	60.10 91	23.022 32	49.72 68	59.386 48	39.38 120
Mai 10	30.97 1	70.36 224	21.786 $\overline{14}$	61.01 107	22.990 $\overline{20}$	49.04 64	59.338 $\overline{13}$	38.18 120
20	30.96 $\overline{9}$	68.12 225	21.800 59	62.08 122	23.010 74	48.40 56	59.351 73	36.98 116
30	31.05 20	65.87 217	21.859 101	63.30 136	23.084 125	47.84 45	59.424 131	35.82 107
Juni 9	31.25 30	63.70 202	21.960 142	64.66 146	23.209 173	47.39 32	59.555 187	34.75 94
19	31.55 38	61.68 181	22.102 179	66.12 152	23.382 217	47.07 18	59.742 237	33.81 79
29	31.93 46	59.87 157	22.281 211	67.64 156	23.599 254	46.89 3	59.979 282	33.02 61
Juli 9	32.39 53	58.30 127	22.492 238	69.20 155	23.853 285	46.86 $\overline{12}$	60.261 319	32.41 42
19	32.92 58	57.03 95	22.730 259	70.75 148	24.138 310	46.98 25	60.580 348	31.99 22
29	33.50 63	56.08 61	22.989 275	72.23 138	24.448 329	47.23 38	60.928 371	31.77 3
Aug. 8	34.13 65	55.47 25	23.264 286	73.61 122	24.777 341	47.61 48	61.299 387	31.74 $\overline{16}$
18	34.78 67	55.22 $\overline{10}$	23.550 290	74.83 103	25.118 348	48.09 58	61.686 396	31.90 34
28	35.45 68	55.32 45	23.840 292	75.86 80	25.466 348	48.67 64	62.082 399	32.24 52
Sept. 7	36.13 67	55.77 79	24.132 288	76.66 53	25.814 346	49.31 69	62.481 397	32.76 66
17	36.80 66	56.56 114	24.420 281	77.19 27	26.160 338	50.00 73	62.878 389	33.42 81
27	37.46 63	57.70 145	24.701 270	77.46 $\overline{1}$	26.498 326	50.73 75	63.267 377	34.23 94
Okt. 7	38.09 60	59.15 175	24.971 257	77.45 27	26.824 311	51.48 78	63.644 360	35.17 106
17	38.69 55	60.90 201	25.228 238	77.18 51	27.135 292	52.26 79	64.004 337	36.23 117
27	39.24 50	62.91 225	25.466 218	76.67 71	27.427 267	53.05 80	64.341 310	37.40 126
Nov. 6	39.74 42	65.16 245	25.684 193	75.96 88	27.694 239	53.85 82	64.651 276	38.66 136
16	40.16 35	67.61 260	25.877 164	75.08 98	27.933 204	54.67 84	64.927 236	40.02 142
26	40.51 26	70.21 267	26.041 131	74.10 104	28.137 166	55.51 85	65.163 191	41.44 147
Dez. 5*)	[3] 40.77 16	72.88 270	[4] 26.172 94	73.06 105	[4] 28.303 121	56.36 85	65.354 139 [6]	42.91 148
15	40.93 6	75.58 264	26.266 55	72.01 102	28.424 73	57.21 82	65.493 82	44.39 146
25	40.99 $\overline{4}$	78.22 249	26.321 14	70.99 94	28.497 23	58.03 79	65.575 23	45.85 139
35	40.95	80.71	26.335	70.05	28.520	58.82	65.598	47.24
Mittl. Ort	33.98	68.08	23.032	67.84	24.448	51.38	61.010	38.62
sec δ, tg δ	2.483	+2.273	1.001	+0.041	1.193	+0.651	1.384	+0.957
a, *a′*	+6.0	+6.1	+3.1	+5.9	+3.9	+5.7	+4.3	+5.4
b, *b′*	+0.05	—0.95	0.00	—0.96	+0.01	—0.96	+0.02	—0.96

*) Bei Stern 183) lies Dez. 6.

Tag	182) β Camelopard. AR.	Diff.	182) β Camelopard. Dekl.	Diff.	184) ι Tauri AR.	Diff.	184) ι Tauri Dekl.	Diff.	185) η Aurigae AR.	Diff.	185) η Aurigae Dekl.	Diff.	186) ε Leporis AR.	Diff.	186) ε Leporis Dekl.	Diff.
1945	4h 58m		+60° 21′		4h 59m		+21° 30′		5h 2m		+41° 9′		5h 3m		−22° 26′	
	s		″		s		″		s		″		s		″	
Jan. 0	31.83	6	53.95	215	48.507	3	44.33	11	39.542	10	43.46	119	8.398	34	46.30	204
10	31.77	15	56.10	191	48.504	48	44.44	9	39.532	66	44.65	107	8.364	78	48.34	179
20	31.62	22	58.01	162	48.456	91	44.53	8	39.466	118	45.72	90	8.286	117	50.13	148
30	31.40	28	59.63	125	48.365	128	44.61	5	39.348	164	46.62	70	8.169	152	51.61	114
Febr. 9	31.12	34	60.88	85	48.237	157	44.66	0	39.184	200	47.32	46	8.017	179	52.75	78
19	30.78	36	61.73	42	48.080	178	44.66	5	38.984	225	47.78	21	7.838	198	53.53	41
März 1	30.42	38	62.15	$\overline{3}$	47.902	187	44.61	10	38.759	237	47.99	$\overline{5}$	7.640	206	53.94	3
11	30.04	38	62.12	46	47.715	185	44.51	15	38.522	234	47.94	30	7.434	205	53.97	$\overline{34}$
21	29.66	35	61.66	86	47.530	172	44.36	18	38.288	218	47.64	54	7.229	193	53.63	71
31	29.31	30	60.80	123	47.358	148	44.18	19	38.070	190	47.10	74	7.036	172	52.92	106
Apr. 10	29.01	25	59.57	152	47.210	116	43.99	18	37.880	150	46.36	89	6.864	143	51.86	139
20	28.76	17	58.05	175	47.094	77	43.81	15	37.730	102	45.47	100	6.721	106	50.47	170
30	28.59	10	56.30	191	47.017	33	43.66	8	37.628	49	44.47	106	6.615	66	48.77	197
Mai 10	28.49	1	54.39	199	46.984	$\overline{14}$	43.58	0	37.579	$\overline{8}$	43.41	107	6.549	21	46.80	222
20	28.48	$\overline{8}$	52.40	199	46.998	62	43.58	10	37.587	67	42.34	102	6.528	$\overline{25}$	44.58	240
30	28.56	16	50.41	193	47.060	109	43.68	22	37.654	123	41.32	94	6.553	70	42.18	255
Juni 9	28.72	24	48.48	180	47.169	152	43.90	33	37.777	177	40.38	82	6.623	114	39.63	264
19	28.96	31	46.68	163	47.321	191	44.23	44	37.954	225	39.56	68	6.737	154	36.99	265
29	29.27	38	45.05	140	47.512	227	44.67	55	38.179	268	38.88	51	6.891	191	34.34	260
Juli 9	29.65	43	43.65	115	47.739	255	45.22	63	38.447	304	38.37	34	7.082	222	31.74	247
19	30.08	48	42.50	86	47.994	278	45.85	69	38.751	334	38.03	16	7.304	249	29.27	228
29	30.56	51	41.64	57	48.272	296	46.54	72	39.085	356	37.87	$\overline{1}$	7.553	269	26.99	201
Aug. 8	31.07	54	41.07	26	48.568	308	47.26	73	39.441	371	37.88	18	7.822	285	24.98	168
18	31.61	55	40.81	$\overline{4}$	48.876	314	47.99	72	39.812	380	38.06	34	8.107	295	23.30	129
28	32.16	57	40.85	36	49.190	316	48.71	66	40.192	385	38.40	48	8.402	299	22.01	85
Sept. 7	32.73	56	41.21	66	49.506	314	49.37	60	40.577	383	38.88	61	8.701	298	21.16	38
17	33.29	55	41.87	95	49.820	308	49.97	52	40.960	376	39.49	72	8.999	292	20.78	$\overline{10}$
27	33.84	53	42.82	122	50.128	298	50.49	43	41.336	366	40.21	84	9.291	282	20.88	58
Okt. 7	34.37	51	44.04	149	50.426	285	50.92	34	41.702	350	41.05	93	9.573	266	21.46	103
17	34.88	47	45.53	173	50.711	269	51.26	27	42.052	329	41.98	103	9.839	248	22.49	144
27	35.35	43	47.26	194	50.980	247	51.53	20	42.381	304	43.01	110	10.087	223	23.93	180
Nov. 6	35.78	38	49.20	212	51.227	222	51.73	15	42.685	272	44.11	119	10.310	195	25.73	208
16	36.16	31	51.32	227	51.449	193	51.88	12	42.957	235	45.30	125	10.505	162	27.81	227
26	36.47	25	53.59	236	51.642	157	52.00	10	43.192	191	46.55	129	10.667	124	30.08	238
Dez. 6	36.72	17	55.95	239	51.799	119	52.10	10	43.383	142	47.84	132	10.791	84	32.46	239
	6				6				7				7			
15	36.89	8	58.34	236	51.918	75	52.20	11	43.525	88	49.16	130	10.875	41	34.85	232
25	36.97	1	60.70	225	51.993	30	52.31	11	43.613	31	50.46	125	10.916	$\overline{4}$	37.17	216
35	36.98		62.95		52.023		52.42		43.644		51.71		10.912		39.33	
Mittl. Ort	30.92		52.24		48.289		47.54		39.172		44.04		7.878		36.97	
sec δ, tg δ	2.022		+1.758		1.075		+0.394		1.328		+0.874		1.082		−0.413	
a, *a′*	+5.3		+5.3		+3.6		+5.2		+4.2		+5.0		+2.5		+4.9	
b, *b′*	+0.03		−0.96		+0.01		−0.97		+0.01		−0.97		−0.01		−0.97	

Tag	188) β Eridani				192) μ Aurigae				194) β Orionis				193) α Aurigae			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1945	$5^h\ 5^m$		$-5°\ 9'$		$5^h\ 9^m$		$+38°\ 25'$		$5^h\ 11^m$		$-8°\ 15'$		$5^h\ 12^m$		$+45°\ 56'$	
Jan. 0	8.939	10	28.67	131	39.965	1	15.69	105	53.941	7	56.61	147	37.778	2	39.35	146
10	8.929	53	29.98	114	39.966	54	16.74	96	53.934	51	58.08	130	37.776	64	40.81	133
20	8.876	91	31.12	96	39.912	105	17.70	83	53.883	90	59.38	109	37.712	122	42.14	115
30	8.785	126	32.08	75	39.807	151	18.53	65	53.793	125	60.47	86	37.590	174	43.29	92
Febr. 9	8.659	153	32.83	53	39.656	188	19.18	45	53.668	154	61.33	61	37.416	214	44.21	65
19	8.506	172	33.36	31	39.468	213	19.63	23	53.514	173	61.94	36	37.202	244	44.86	35
März 1	8.334	181	33.67	9	39.255	226	19.86	0	53.341	184	62.30	10	36.958	258	45.21	5
11	8.153	180	33.76	14	39.029	225	19.86	23	53.157	183	62.40	15	36.700	258	45.26	25
21	7.973	169	33.62	37	38.804	211	19.63	44	52.974	174	62.25	41	36.442	243	45.01	54
31	7.804	149	33.25	60	38.593	185	19.19	62	52.800	155	61.84	66	36.199	214	44.47	79
Apr. 10	7.655	121	32.65	81	38.408	149	18.57	76	52.645	128	61.18	90	35.985	174	43.68	99
20	7.534	86	31.84	103	38.259	104	17.81	86	52.517	93	60.28	113	35.811	124	42.69	116
30	7.448	46	30.81	123	38.155	52	16.95	91	52.424	54	59.15	136	35.687	67	41.53	125
Mai 10	7.402	4	29.58	143	38.103	2	16.04	91	52.370	12	57.79	155	35.620	7	40.28	131
20	7.398	40	28.15	158	38.105	58	15.13	87	52.358	31	56.24	172	35.613	55	38.97	129
30	7.438	83	26.57	172	38.163	112	14.26	80	52.389	75	54.52	187	35.668	116	37.68	123
Juni 9	7.521	124	24.85	182	38.275	164	13.46	70	52.464	115	52.65	196	35.784	174	36.45	113
19	7.645	162	23.03	187	38.439	211	12.76	56	52.579	154	50.69	201	35.958	228	35.32	100
29	7.807	194	21.16	188	38.650	253	12.20	42	52.733	188	48.68	201	36.186	274	34.32	84
Juli 9	8.001	223	19.28	183	38.903	288	11.78	26	52.921	217	46.67	195	36.460	315	33.48	65
19	8.224	247	17.45	172	39.191	318	11.52	10	53.138	241	44.72	183	36.775	349	32.83	47
29	8.471	264	15.73	157	39.509	339	11.42	4	53.379	260	42.89	166	37.124	374	32.36	26
Aug. 8	8.735	278	14.16	136	39.848	356	11.46	18	53.639	274	41.23	143	37.498	394	32.10	7
18	9.013	285	12.80	110	40.204	365	11.64	31	53.913	284	39.80	114	37.892	406	32.03	12
28	9.298	288	11.70	80	40.569	371	11.95	43	54.197	287	38.66	82	38.298	413	32.15	30
Sept. 7	9.586	287	10.90	48	40.940	370	12.38	54	54.484	288	37.84	47	38.711	413	32.45	48
17	9.873	282	10.42	14	41.310	365	12.92	62	54.772	284	37.37	10	39.124	409	32.93	64
27	10.155	273	10.28	21	41.675	356	13.54	70	55.056	276	37.27	27	39.533	399	33.57	80
Okt. 7	10.428	261	10.49	54	42.031	342	14.24	79	55.332	264	37.54	63	39.932	384	34.37	94
17	10.689	244	11.03	83	42.373	323	15.03	85	55.596	248	38.17	95	40.316	363	35.31	109
27	10.933	225	11.86	109	42.696	300	15.88	93	55.844	229	39.12	123	40.679	336	36.40	122
Nov. 6	11.158	200	12.95	130	42.996	271	16.81	99	56.073	205	40.35	146	41.015	303	37.62	134
16	11.358	171	14.25	144	43.267	235	17.80	105	56.278	176	41.81	161	41.318	263	38.96	143
26	11.529	138	15.69	151	43.502	194	18.85	111	56.454	142	43.42	169	41.581	216	40.39	151
Dez. 6	11.667	102	17.20	153	43.696	148	19.96	112	56.596	106	45.11	172	41.797	163	41.90	156
15	7 11.769	61	18.73	148	9 43.844	96	21.08	113	9 56.702	65	46.83	167	9 41.960	104	43.46	156
25	11.830	19	20.21	138	43.940	40	22.21	110	56.767	22	48.50	156	42.064	43	45.02	152
35	11.849		21.59		43.980		23.31		56.789		50.06		42.107		46.54	
Mittl. Ort	8.626		21.68		39.619		16.81		53.584		49.44		37.310		39.71	
sec δ, tg δ	1.004		—0.090		1.276		+0.793		1.010		—0.145		1.438		+1.034	
a, *a′*	+3.0		+4.8		+4.1		+4.4		+2.9		+4.2		+4.4		+4.1	
b, *b′*	0.00		—0.97		+0.01		—0.98		0.00		—0.98		+0.01		—0.98	

Tag		191) 19 H. Camelop.				196) ϑ Doradus				201) γ Orionis				202) β Tauri			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$5^h\ 13^m$		$+79°\ 10'$		$5^h\ 13^m$		$-67°\ 14'$		$5^h\ 22^m$		$+6°\ 17'$		$5^h\ 22^m$		$+28°\ 33'$	
		s		″		s		″		s		″		s		″	
Jan.	0	31.00	24	24.75	297	50.76	27	62.05	295	11.025	12	60.12	76	49.035	19	43.91	51
	10	30.76	45	27.72	270	50.49	36	65.00	257	11.037	—32	59.36	66	49.054	—31	44.42	48
	20	30.31	65	30.42	234	50.13	44	67.57	212	11.005	73	58.70	54	49.023	79	44.90	44
	30	29.66	81	32.76	191	49.69	51	69.69	161	10.932	111	58.16	43	48.944	123	45.34	37
Febr.	9	28.85	95	34.67	141	49.18	56	71.30	109	10.821	142	57.73	32	48.821	158	45.71	27
	19	27.90	105	36.08	85	48.62	59	72.39	53	10.679	164	57.41	20	48.663	183	45.98	16
März	1	26.85	108	36.93	27	48.03	60	72.92	—3	10.515	176	57.21	8	48.480	197	46.14	3
	11	25.77	107	37.20	—31	47.43	60	72.89	58	10.339	178	57.13	—2	48.283	200	46.17	—8
	21	24.70	102	36.89	85	46.83	59	72.31	111	10.161	170	57.15	15	48.083	190	46.09	20
	31	23.68	92	36.04	136	46.24	54	71.20	161	9.991	152	57.30	26	47.893	169	45.89	30
Apr.	10	22.76	79	34.68	179	45.70	48	69.59	207	9.839	125	57.56	40	47.724	139	45.59	36
	20	21.97	61	32.89	216	45.22	42	67.52	248	9.714	92	57.96	52	47.585	100	45.23	41
	30	21.36	43	30.73	243	44.80	34	65.04	284	9.622	52	58.48	66	47.485	55	44.82	41
Mai	10	20.93	22	28.30	261	44.46	26	62.20	315	9.570	10	59.14	80	47.430	7	44.41	38
	20	20.71	0	25.69	270	44.20	16	59.05	336	9.560	—33	59.94	93	47.423	—42	44.03	33
	30	20.7	21	22.99	270	44.04	6	55.69	351	9.593	76	60.87	105	47.465	91	43.70	26
Juni	9	20.92	42	20.29	263	43.98	—4	52.18	357	9.669	118	61.92	115	47.556	137	43.44	17
	19	21.34	60	17.66	247	44.02	13	48.61	355	9.787	155	63.07	122	47.693	180	43.27	6
	29	21.94	79	15.19	224	44.15	23	45.06	342	9.942	190	64.29	126	47.873	218	43.21	—4
Juli	9	22.73	95	12.95	196	44.38	32	41.64	320	10.132	219	65.55	126	48.091	251	43.25	13
	19	23.68	109	10.99	164	44.70	39	38.44	290	10.351	243	66.81	123	48.342	278	43.38	23
	29	24.77	120	9.35	128	45.09	46	35.54	250	10.594	262	68.04	116	48.620	300	43.61	30
Aug.	8	25.97	128	8.07	89	45.55	52	33.04	203	10.856	277	69.20	104	48.920	315	43.91	36
	18	27.25	135	7.18	47	46.07	57	31.01	148	11.133	286	70.24	88	49.235	326	44.27	39
	28	28.60	139	6.71	5	46.64	59	29.53	88	11.419	291	71.12	68	49.561	332	44.66	41
Sept.	7	29.99	140	6.66	—38	47.23	60	28.65	24	11.710	293	71.80	47	49.893	333	45.07	42
	17	31.39	139	7.04	80	47.83	59	28.41	—41	12.003	290	72.27	24	50.226	332	45.49	41
	27	32.78	136	7.84	121	48.42	57	28.82	105	12.293	285	72.51	—1	50.558	325	45.90	39
Okt.	7	34.14	129	9.05	162	48.99	52	29.87	166	12.578	275	72.50	23	50.883	314	46.29	38
	17	35.43	120	10.67	200	49.51	47	31.53	221	12.853	262	72.27	44	51.197	301	46.67	38
	27	36.63	108	12.67	234	49.98	40	33.74	269	13.115	244	71.83	63	51.498	281	47.05	38
Nov.	6	37.71	94	15.01	264	50.38	31	36.43	306	13.359	222	71.20	76	51.779	258	47.43	38
	16	38.65	78	17.65	289	50.69	22	39.49	331	13.581	196	70.44	85	52.037	227	47.81	41
	26	39.43	58	20.54	307	50.91	11	42.80	346	13.777	164	69.59	91	52.264	191	48.22	44
Dez.	6	$_{10}$40.01	38	23.61	316	$_{10}$51.02	1	46.26	346	$_{12}$13.941	128	68.68	91	$_{12}$52.455	151	48.66	47
	15	40.39	15	26.77	317	51.03	—10	49.72	335	14.069	87	67.77	88	52.606	104	49.13	50
	25	40.54	—8	29.94	308	50.93	21	53.07	313	14.156	43	66.89	81	52.710	55	49.63	51
	35	40.46		33.02		50.72		56.20		14.199		66.08		52.765		50.14	
Mittl. Ort		27.13		22.48		47.57		50.15		10.747		65.26		48.751		46.46	
sec δ, tg δ		5.324		+5.229		2.586		−2.384		1.006		+0.110		1.139		+0.544	
a, a′		+9.9		+4.0		0.0		+4.0		+3.2		+3.3		+3.8		+3.2	
b, b′		+0.07		−0.98		−0.03		−0.98		0.00		−0.99		+0.01		−0.99	

Scheinbare Sternörter 1945

Tag	203) 17 Camelopard. AR.		Dekl.		206) δ Orionis AR.		Dekl.		207) α Leporis AR.		Dekl.		205) Grb 966 Caml AR.		Dekl.	
1945	5h 24m		+63° 1′		5h 29m		−0° 20′		5h 30m		−17° 51′		5h 32m		+75° 0′	
	s		″		s		″		s		″		s		″	
Jan. 0	59.19	2	27.69	235	12.023	14	23.38	114	18.695	3	44.39	199	24.00	7	42.50	288
10	59.17	11	30.04	217	12.037	30	24.52	99	18.692	49	46.38	177	23.93	24	45.38	267
20	59.06	20	32.21	192	12.007	72	25.51	84	18.643	91	48.15	151	23.69	39	48.05	238
30	58.86	29	34.13	159	11.935	110	26.35	67	18.552	129	49.66	121	23.30	53	50.43	200
Febr. 9	58.57	34	35.72	120	11.825	140	27.02	49	18.423	160	50.87	89	22.77	64	52.43	154
19	58.23	39	36.92	76	11.685	164	27.51	30	18.263	183	51.76	55	22.13	71	53.97	104
März 1	57.84	42	37.68	31	11.521	177	27.81	13	18.080	197	52.31	22	21.42	76	55.01	49
11	57.42	42	37.99	15	11.344	180	27.94	6	17.883	199	52.53	13	20.66	77	55.50	5
21	57.00	40	37.84	59	11.164	174	27.88	24	17.684	192	52.40	46	19.89	75	55.45	59
31	56.60	36	37.25	100	10.990	156	27.64	42	17.492	176	51.94	79	19.14	68	54.86	109
Apr. 10	56.24	30	36.25	136	10.834	131	27.22	59	17.316	151	51.15	110	18.46	59	53.77	153
20	55.94	24	34.89	165	10.703	98	26.63	78	17.165	118	50.05	139	17.87	48	52.24	191
30	55.70	15	33.24	187	10.605	61	25.85	95	17.047	80	48.66	166	17.39	34	50.33	220
Mai 10	55.55	7	31.37	202	10.544	20	24.90	112	16.967	39	47.00	190	17.05	20	48.13	241
20	55.48	3	29.35	210	10.524	23	23.78	127	16.928	5	45.10	210	16.85	4	45.72	254
30	55.51	11	27.25	209	10.547	65	22.51	139	16.933	48	43.00	226	16.81	12	43.18	258
Juni 9	55.62	21	25.16	202	10.612	106	21.12	150	16.981	91	40.74	237	16.93	26	40.60	255
19	55.83	28	23.14	190	10.718	144	19.62	156	17.072	130	38.37	241	17.19	41	38.05	243
29	56.11	36	21.24	173	10.862	178	18.06	158	17.202	167	35.96	240	17.60	55	35.62	226
Juli 9	56.47	43	19.51	151	11.040	208	16.48	156	17.369	200	33.56	232	18.15	66	33.36	202
19	56.90	48	18.00	126	11.248	233	14.92	150	17.569	227	31.24	216	18.81	77	31.34	174
29	57.38	53	16.74	98	11.481	253	13.42	137	17.796	250	29.08	194	19.58	85	29.60	143
Aug. 8	57.91	56	15.76	68	11.734	268	12.05	121	18.046	268	27.14	166	20.43	93	28.17	107
18	58.47	59	15.08	37	12.002	280	10.84	100	18.314	281	25.48	132	21.36	98	27.10	70
28	59.06	61	14.71	5	12.282	286	9.84	74	18.595	289	24.16	93	22.34	102	26.40	31
Sept. 7	59.67	61	14.66	26	12.568	288	9.10	46	18.884	292	23.23	49	23.36	104	26.09	8
17	60.28	61	14.92	57	12.856	288	8.64	17	19.176	292	22.74	5	24.40	104	26.17	49
27	60.89	60	15.49	88	13.144	282	8.47	14	19.468	286	22.69	40	25.44	102	26.66	89
Okt. 7	61.49	58	16.37	119	13.426	274	8.61	42	19.754	276	23.09	85	26.46	99	27.55	127
17	62.07	54	17.56	147	13.700	261	9.03	70	20.030	262	23.94	125	27.45	93	28.82	165
27	62.61	51	19.03	174	13.961	244	9.73	93	20.292	243	25.19	160	28.38	86	30.47	200
Nov. 6	63.12	45	20.77	198	14.205	223	10.66	111	20.535	218	26.79	188	29.24	76	32.47	231
16	63.57	40	22.75	219	14.428	196	11.77	124	20.753	189	28.67	209	30.00	66	34.78	258
26	63.97	32	24.94	234	14.624	165	13.01	131	20.942	155	30.76	222	30.66	52	37.36	280
Dez. 6	64.29	23	27.28	244	14.789	129	14.32	132	21.097	115	32.98	226	31.18	37	40.16	294
15	(12) 64.52	14	29.72	247	(14) 14.918	89	15.64	129	(14) 21.212	74	35.24	222	(14) 31.55	21	43.10	298
25	64.66	5	32.19	243	15.007	45	16.93	120	21.286	28	37.46	209	31.76	4	46.08	295
35	64.71		34.62		15.052		18.13		21.314		39.55		31.80		49.03	
Mittl. Ort	58.07		27.04		11.695		17.66		18.177		36.99		21.39		41.52	
sec δ, tg δ	2.205		+1.965		1.000		−0.006		1.051		−0.322		3.867		+3.735	
a, *a′*	+5.7		+3.1		+3.1		+2.7		+2.6		+2.6		+8.0		+2.4	
b, *b′*	+0.02		−0.99		0.00		−0.99		0.00		−0.99		+0.03		−0.99	

Tag		209) ι Orionis AR.		Dekl.		212) β Doradus AR.		Dekl.		210) ε Orionis AR.		Dekl.		211) ζ Tauri AR.		Dekl.	
1945		5h 32m		−5° 56′		5h 33m		−62° 31′		5h 33m		−1° 13′		5h 34m		+21° 6′	
		s		″		s		″		s		″		s		″	
Jan.	0	44.841	12	46.12	144	11.29	17	41.68	311	25.597	18	73.37	120	21.609	30	35.44	7
	10	44.853	$\overline{32}$	47.56	127	11.12	26	44.79	278	25.615	$\overline{27}$	74.57	105	21.639	$\overline{19}$	35.51	10
	20	44.821	74	48.83	108	10.86	32	47.57	236	25.588	70	75.62	89	21.620	65	35.61	12
	30	44.747	111	49.91	86	10.54	39	49.93	190	25.518	108	76.51	70	21.555	107	35.73	13
Febr.	9	44.636	143	50.77	64	10.15	45	51.83	138	25.410	139	77.21	52	21.448	142	35.86	11
	19	44.493	167	51.41	40	9.70	48	53.21	83	25.271	163	77.73	33	21.306	168	35.97	8
März	1	44.326	181	51.81	17	9.22	49	54.04	29	25.108	177	78.06	14	21.138	184	36.05	4
	11	44.145	184	51.98	$\overline{7}$	8.73	50	54.33	$\overline{26}$	24.931	181	78.20	$\overline{5}$	20.954	189	36.09	$\overline{1}$
	21	43.961	177	51.91	31	8.23	49	54.07	80	24.750	175	78.15	24	20.765	181	36.08	4
	31	43.784	161	51.60	53	7.74	46	53.27	131	24.575	158	77.91	43	20.584	164	36.04	7
Apr.	10	43.623	137	51.07	76	7.28	42	51.96	179	24.417	134	77.48	62	20.420	137	35.97	7
	20	43.486	105	50.31	97	6.86	36	50.17	223	24.283	102	76.86	80	20.283	102	35.90	7
	30	43.381	68	49.34	119	6.50	30	47.94	263	24.181	64	76.06	98	20.181	61	35.83	3
Mai	10	43.313	27	48.15	137	6.20	23	45.31	295	24.117	24	75.08	115	20.120	16	35.80	$\overline{1}$
	20	43.286	$\overline{15}$	46.78	154	5.97	16	42.36	322	24.093	$\overline{18}$	73.93	131	20.104	$\overline{29}$	35.81	8
	30	43.301	58	45.24	168	5.81	7	39.14	340	24.111	61	72.62	143	20.133	75	35.89	17
Juni	9	43.359	98	43.56	178	5.74	$\overline{1}$	35.74	351	24.172	101	71.19	153	20.208	119	36.06	24
	19	43.457	137	41.78	184	5.75	10	32.23	353	24.273	140	69.66	159	20.327	159	36.30	33
	29	43.594	171	39.94	186	5.85	17	28.70	346	24.413	174	68.07	162	20.486	196	36.63	40
Juli	9	43.765	201	38.08	181	6.02	25	25.24	328	24.587	204	66.45	159	20.682	227	37.03	46
	19	43.966	228	36.27	172	6.27	32	21.96	302	24.791	229	64.86	153	20.909	255	37.49	51
	29	44.194	248	34.55	156	6.59	37	18.94	266	25.020	250	63.33	140	21.164	275	38.00	52
Aug.	8	44.442	265	32.99	136	6.96	43	16.28	222	25.270	266	61.93	122	21.439	292	38.52	51
	18	44.707	277	31.63	111	7.39	47	14.06	169	25.536	278	60.71	101	21.731	304	39.03	49
	28	44.984	284	30.52	81	7.86	49	12.37	112	25.814	285	59.70	75	22.035	311	39.52	43
Sept.	7	45.268	287	29.71	47	8.35	51	11.25	49	26.099	288	58.95	46	22.346	314	39.95	36
	17	45.555	286	29.24	13	8.86	52	10.76	$\overline{15}$	26.387	287	58.49	15	22.660	314	40.31	28
	27	45.841	282	29.11	$\overline{23}$	9.38	50	10.91	81	26.674	283	58.34	$\overline{15}$	22.974	310	40.59	18
Okt.	7	46.123	274	29.34	57	9.88	47	11.72	144	26.957	275	58.49	46	23.284	302	40.77	11
	17	46.397	261	29.91	88	10.35	43	13.16	202	27.232	263	58.95	73	23.586	290	40.88	3
	27	46.658	245	30.79	116	10.78	38	15.18	252	27.495	247	59.68	98	23.876	273	40.91	$\overline{3}$
Nov.	6	46.903	222	31.95	138	11.16	31	17.70	294	27.742	226	60.66	116	24.149	252	40.88	7
	16	47.125	196	33.33	153	11.47	24	20.64	324	27.968	199	61.82	130	24.401	226	40.81	7
	26	47.321	164	34.86	163	11.71	16	23.88	344	28.167	168	63.12	137	24.627	192	40.74	7
Dez.	6	47.485	128	36.49	166	11.87	6	27.32	349	28.335	132	64.49	139	24.819	154	40.67	3
		14				15				15				15			
	15	47.613	87	38.15	161	11.93	$\overline{2}$	30.81	344	28.467	92	65.88	135	24.973	111	40.64	0
	25	47.700	43	39.76	152	11.91	12	34.25	327	28.559	49	67.23	127	25.084	64	40.64	6
	35	47.743		41.28		11.79		37.52		28.608		68.50		25.148		40.70	
Mittl. Ort		44.462		39.94		8.67		31.86		25.257		67.67		21.334		38.90	
sec δ, tg δ		1.005		−0.104		2.168		−1.923		1.000		−0.022		1.072		+0.386	
a, *a′*		+2.9		+2.4		+0.5		+2.3		+3.0		+2.3		+3.6		+2.2	
b, *b′*		0.00		−0.99		−0.02		−0.99		0.00		−0.99		0.00		−0.99	

Tag	215) α Columbae AR.		215) α Columbae Dekl.		216) ο Aurigae AR.		216) ο Aurigae Dekl.		219) ζ Leporis AR.		219) ζ Leporis Dekl.		220) κ Orionis AR.		220) κ Orionis Dekl.	
1945	5h 37m		−34° 5′		5h 41m		+49° 48′		5h 44m		−14° 50′		5h 45m		−9° 41′	
	s		″		s		″		s		″		s		″	
Jan. 0	40.229	25	76.37	265	38.782	34	15.39	173	28.215	13	34.50	192	9.237	20	21.89	168
10	40.204	77	79.02	237	38.816	35	17.12	163	28.228	32	36.42	172	9.257	26	23.57	149
20	40.127	124	81.39	203	38.781	102	18.75	149	28.196	76	38.14	147	9.231	69	25.06	128
30	40.003	166	83.42	165	38.679	163	20.24	128	28.120	116	39.61	120	9.162	108	26.34	103
Febr. 9	39.837	200	85.07	123	38.516	214	21.52	101	28.004	149	40.81	91	9.054	141	27.37	78
19	39.637	226	86.30	79	38.302	252	22.53	71	27.855	174	41.72	59	8.913	167	28.15	51
März 1	39.411	241	87.09	34	38.050	275	23.24	37	27.681	189	42.31	28	8.746	183	28.66	24
11	39.170	245	87.43	12	37.775	282	23.61	4	27.492	195	42.59	3	8.563	187	28.90	3
21	38.925	239	87.31	57	37.493	274	23.65	29	27.297	191	42.56	35	8.376	184	28.87	30
31	38.686	222	86.74	99	37.219	251	23.36	61	27.106	176	42.21	65	8.192	169	28.57	56
Apr. 10	38.464	196	85.75	141	36.968	214	22.75	87	26.930	153	41.56	95	8.023	147	28.01	81
20	38.268	162	84.34	178	36.754	167	21.88	111	26.777	122	40.61	122	7.876	116	27.20	106
30	38.106	121	82.56	213	36.587	110	20.77	128	26.655	86	39.39	148	7.760	80	26.14	129
Mai 10	37.985	77	80.43	242	36.477	48	19.49	139	26.569	47	37.91	171	7.680	41	24.85	149
20	37.908	30	78.01	267	36.429	16	18.10	146	26.522	4	36.20	191	7.639	1	23.36	168
30	37.878	18	75.34	285	36.445	80	16.64	146	26.518	38	34.29	207	7.640	43	21.68	182
Juni 9	37.896	67	72.49	297	36.525	143	15.18	142	26.556	80	32.22	219	7.683	84	19.86	194
19	37.963	112	69.52	301	36.668	201	13.76	133	26.636	119	30.03	224	7.767	122	17.92	199
29	38.075	155	66.51	298	36.869	255	12.43	121	26.755	156	27.79	224	7.889	158	15.93	201
Juli 9	38.230	194	63.53	286	37.124	303	11.22	106	26.911	188	25.55	219	8.047	190	13.92	196
19	38.424	229	60.67	265	37.427	342	10.16	89	27.099	216	23.36	205	8.237	216	11.96	185
29	38.653	258	58.02	237	37.769	376	9.27	70	27.315	240	21.31	186	8.453	240	10.11	168
Aug. 8	38.911	282	55.65	200	38.145	403	8.57	50	27.555	259	19.45	161	8.693	258	8.43	147
18	39.193	300	53.65	158	38.548	422	8.07	30	27.814	273	17.84	129	8.951	272	6.96	118
28	39.493	313	52.07	108	38.970	435	7.77	10	28.087	283	16.55	92	9.223	281	5.78	85
Sept. 7	39.806	319	50.99	55	39.405	443	7.67	10	28.370	289	15.63	53	9.504	286	4.93	50
17	40.125	320	50.44	0	39.848	444	7.77	30	28.659	290	15.10	10	9.790	288	4.43	12
27	40.445	315	50.44	56	40.292	440	8.07	50	28.949	288	15.00	34	10.078	286	4.31	27
Okt. 7	40.760	304	51.00	112	40.732	430	8.57	70	29.237	280	15.34	75	10.364	278	4.58	66
17	41.064	286	52.12	162	41.162	413	9.27	90	29.517	268	16.09	114	10.642	268	5.24	100
27	41.350	263	53.74	206	41.575	390	10.17	108	29.785	252	17.23	148	10.910	252	6.24	130
Nov. 6	41.613	233	55.80	243	41.965	358	11.25	126	30.037	230	18.71	177	11.162	231	7.54	156
16	41.846	197	58.23	271	42.323	319	12.51	143	30.267	202	20.48	198	11.393	205	9.10	174
26	42.043	156	60.94	288	42.642	270	13.94	157	30.469	170	22.46	210	11.598	173	10.84	185
Dez. 6	42.199	110	63.82	294	42.912	214	15.51	168	30.639	132	24.56	215	11.771	137	12.69	189
16	42.309	61	66.76	291	43.126	152	17.19	174	[17] 30.771	90	26.71	212	[18] 11.908	95	14.58	186
25	[16] 42.370	9	69.67	277	[17] 43.278	84	18.93	175	30.861	45	28.83	201	12.003	52	16.44	176
35	42.379		72.44		43.362		20.68		30.906		30.84		12.055		18.20	
Mittl. Ort	39.347		68.20		38.190		16.49		27.713		28.05		8.799		15.86	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.034		−0.265		1.014		−0.171	
a, *a′*	+2.2		+2.0		+4.6		+1.6		+2.7		+1.4		+2.8		+1.3	
b, *b′*	0.00		−1.00		+0.01		−1.00		0.00		−1.00		0.00		−1.00	

Tag	224) α Orionis AR.		224) α Orionis Dekl.		225) δ Aurigae AR.		225) δ Aurigae Dekl.	
1945	$5^h\ 52^m$		$+7°\ 23'$		$5^h\ 54^m$		$+54°\ 16'$	
	s		"		s		"	
Jan. 0	11.895	40	50.03	76	60.553	53	57.33	197
10	11.935	6	49.27	66	60.606	25	59.30	189
20	11.929	51	48.61	53	60.581	101	61.19	175
30	11.878	92	48.08	41	60.480	170	62.94	153
Febr. 9	11.786	127	47.67	29	60.310	228	64.47	125
19	11.659	155	47.38	18	60.082	273	65.72	93
März 1	11.504	173	47.20	7	59.809	303	66.65	56
11	11.331	179	47.13	4	59.506	315	67.21	19
21	11.152	176	47.17	14	59.191	310	67.40	19
31	10.976	162	47.31	24	58.881	288	67.21	55
Apr. 10	10.814	140	47.55	35	58.593	251	66.66	88
20	10.674	109	47.90	47	58.342	202	65.78	115
30	10.565	73	48.37	58	58.140	143	64.63	138
Mai 10	10.492	34	48.95	69	57.997	78	63.25	154
20	10.458	8	49.64	81	57.919	8	61.71	165
30	10.466	50	50.45	91	57.911	62	60.06	169
Juni 9	10.516	91	51.36	99	57.973	131	58.37	168
19	10.607	130	52.35	106	58.104	196	56.69	162
29	10.737	165	53.41	111	58.300	256	55.07	152
Juli 9	10.902	196	54.52	110	58.556	310	53.55	138
19	11.098	223	55.62	108	58.866	356	52.17	121
29	11.321	245	56.70	100	59.222	397	50.96	102
Aug. 8	11.566	263	57.70	90	59.619	428	49.94	80
18	11.829	276	58.60	75	60.047	454	49.14	58
28	12.105	286	59.35	57	60.501	472	48.56	35
Sept. 7	12.391	292	59.92	36	60.973	484	48.21	12
17	12.683	294	60.28	14	61.457	489	48.09	12
27	12.977	292	60.42	9	61.946	487	48.21	37
Okt. 7	13.269	288	60.33	31	62.433	480	48.58	61
17	13.557	280	60.02	51	62.913	463	49.19	84
27	13.837	265	59.51	69	63.376	440	50.03	109
Nov. 6	14.102	247	58.82	81	63.816	407	51.12	131
16	14.349	223	58.01	91	64.223	364	52.43	153
26	14.572	193	57.10	95	64.587	313	53.96	170
Dez. 6	14.765	158	56.15	94	64.900	251	55.66	185
16	19 14.923	117	55.21	90	20 65.151	183	57.51	195
25	15.040	73	54.31	82	65.334	107	59.46	198
35	15.113		53.49		65.441		61.44	
Mittl. Ort	11.579		54.59		59.819		58.68	
sec δ, tg δ	1.008		+0.130		1.713		+1.391	
a, *a′*	+3.2		+0.7		+4.9		+0.4	
b, *b′*	0.00		−1.00		0.00		−1.00	

Tag	227) β Aurigae AR.		227) β Aurigae Dekl.		1162) +33° 1209 Auri AR.		1162) +33° 1209 Auri Dekl.	
1945	$5^h\ 55^m$		$+44°\ 56'$		$5^h\ 56^m$		$+33°\ 8'$	
	s		"		s		"	
Jan. 0	30.077	56	36.79	146	37.701	57	2.89	78
10	30.133	9	38.25	143	37.758	1	3.67	78
20	30.124	73	39.68	132	37.759	54	4.45	75
30	30.051	131	41.00	118	37.705	104	5.20	69
Febr. 9	29.920	180	42.18	97	37.601	146	5.89	59
19	29.740	218	43.15	73	37.455	179	6.48	45
März 1	29.522	244	43.88	45	37.276	202	6.93	30
11	29.278	254	44.33	17	37.074	210	7.23	13
21	29.024	250	44.50	13	36.864	207	7.36	3
31	28.774	231	44.37	40	36.657	192	7.33	20
Apr. 10	28.543	201	43.97	64	36.465	165	7.13	33
20	28.342	159	43.33	85	36.300	130	6.80	44
30	28.183	110	42.48	101	36.170	88	6.36	52
Mai 10	28.073	55	41.47	113	36.082	41	5.84	56
20	28.018	3	40.34	119	36.041	8	5.28	58
30	28.021	61	39.15	121	36.049	58	4.70	56
Juni 9	28.082	119	37.94	118	36.107	107	4.14	52
19	28.201	172	36.76	113	36.214	152	3.62	46
29	28.373	222	35.63	103	36.366	194	3.16	38
Juli 9	28.595	266	34.60	92	36.560	231	2.78	30
19	28.861	303	33.68	79	36.791	262	2.48	23
29	29.164	336	32.89	65	37.053	290	2.25	15
Aug. 8	29.500	361	32.24	49	37.343	310	2.10	7
18	29.861	382	31.75	34	37.653	327	2.03	2
28	30.243	396	31.41	18	37.980	339	2.01	4
Sept. 7	30.639	405	31.23	3	38.319	347	2.05	7
17	31.044	409	31.20	12	38.666	350	2.12	12
27	31.453	408	31.32	28	39.016	349	2.24	15
Okt. 7	31.861	402	31.60	43	39.365	345	2.39	19
17	32.263	390	32.03	59	39.710	335	2.58	24
27	32.653	371	32.62	76	40.045	320	2.82	30
Nov. 6	33.024	346	33.38	92	40.365	300	3.12	37
16	33.370	311	34.30	107	40.665	271	3.49	44
26	33.681	270	35.37	121	40.936	237	3.93	54
Dez. 6	33.951	220	36.58	133	41.173	195	4.47	62
16	20 34.171	163	37.91	142	20 41.368	148	5.09	70
25	34.334	102	39.33	146	41.516	95	5.79	76
35	34.436		40.79		41.611		6.55	
Mittl. Ort	29.580		38.73		37.352		5.64	
sec δ, tg δ	1.413		+0.998		1.194		+0.653	
a, *a′*	+4.4		+0.4		+3.9		+0.3	
b, *b′*	0.00		−1.00		0.00		−1.00	

Scheinbare Sternörter 1945

Tag	229) η Columbae				232) ν Orionis				1168) κ Aurigae				234) 22 H. Camelop.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$5^h\ 57^m$		−42° 48′		$6^h\ 4^m$		+14° 46′		$6^h\ 11^m$		+29° 31′		$6^h\ 12^m$		+69° 20′	
	s		″		s		″		s		″		s		″	
Jan. 0	28.933	26	69.34	301	26.128	57	32.38	35	52.697	72	9.64	53	49.01	9	31.92	270
10	28.907	85	72.35	274	26.185	8	32.03	27	52.769	17	10.17	57	49.10	5	34.62	262
20	28.822	139	75.09	240	26.193	40	31.76	17	52.786	36	10.74	60	49.05	17	37.24	245
30	28.683	188	77.49	201	26.153	83	31.59	10	52.750	86	11.34	57	48.88	28	39.69	218
Febr. 9	28.495	229	79.50	156	26.070	122	31.49	4	52.664	130	11.91	52	48.60	39	41.87	184
19	28.266	259	81.06	108	25.948	152	31.45	2	52.534	164	12.43	44	48.21	46	43.71	142
März 1	28.007	280	82.14	59	25.796	172	31.47	5	52.370	188	12.87	32	47.75	51	45.13	96
11	27.727	288	82.73	10	25.624	181	31.52	8	52.182	200	13.19	20	47.24	55	46.09	46
21	27.439	285	82.83	40	25.443	180	31.60	11	51.982	201	13.39	7	46.69	54	46.55	5
31	27.154	270	82.43	87	25.263	168	31.71	14	51.781	188	13.46	5	46.15	52	46.50	54
Apr. 10	26.884	246	81.56	133	25.095	146	31.85	17	51.593	165	13.41	16	45.63	47	45.96	99
20	26.638	213	80.23	176	24.949	117	32.02	21	51.428	134	13.25	26	45.16	40	44.97	140
30	26.425	171	78.47	214	24.832	81	32.23	27	51.294	95	12.99	33	44.76	31	43.57	174
Mai 10	26.254	126	76.33	249	24.751	42	32.50	33	51.199	52	12.66	37	44.45	21	41.83	202
20	26.128	76	73.84	277	24.709	1	32.83	40	51.147	5	12.29	38	44.24	11	39.81	222
30	26.052	23	71.07	299	24.710	44	33.23	47	51.142	42	11.91	38	44.13	1	37.59	234
Juni 9	26.029	29	68.08	314	24.754	85	33.70	53	51.184	88	11.53	34	44.14	12	35.25	240
19	26.058	81	64.94	321	24.839	125	34.23	60	51.272	132	11.19	31	44.26	23	32.85	238
29	26.139	130	61.73	320	24.964	162	34.83	64	51.404	172	10.88	25	44.49	32	30.47	230
Juli 9	26.269	176	58.53	309	25.126	193	35.47	67	51.576	209	10.63	19	44.81	42	28.17	216
19	26.445	219	55.44	290	25.319	222	36.14	66	51.785	240	10.44	15	45.23	51	26.01	197
29	26.664	255	52.54	262	25.541	245	36.80	62	52.025	268	10.29	11	45.74	58	24.04	174
Aug. 8	26.919	287	49.92	225	25.786	265	37.42	57	52.293	289	10.18	6	46.32	65	22.30	147
18	27.206	313	47.67	180	26.051	280	37.99	48	52.582	308	10.12	5	46.97	69	20.83	118
28	27.519	332	45.87	129	26.331	291	38.47	37	52.890	321	10.07	3	47.66	74	19.65	85
Sept. 7	27.851	345	44.58	73	26.622	299	38.84	22	53.211	331	10.04	3	48.40	76	18.80	52
17	28.196	350	43.85	13	26.921	304	39.06	8	53.542	337	10.01	3	49.16	78	18.28	16
27	28.546	349	43.72	47	27.225	304	39.14	8	53.879	339	9.98	3	49.94	78	18.12	20
Okt. 7	28.895	340	44.19	107	27.529	301	39.06	22	54.218	337	9.95	3	50.72	78	18.32	57
17	29.235	323	45.26	164	27.830	294	38.84	35	54.555	331	9.92	1	51.50	75	18.89	94
27	29.558	298	46.90	214	28.124	282	38.49	46	54.886	319	9.91	3	52.25	71	19.83	130
Nov. 6	29.856	266	49.04	257	28.406	265	38.03	54	55.205	300	9.94	7	52.96	67	21.13	165
16	30.122	227	51.61	290	28.671	242	37.49	57	55.505	276	10.01	15	53.63	59	22.78	197
26	30.349	180	54.51	312	28.913	213	36.92	58	55.781	245	10.16	22	54.22	51	24.75	225
Dez. 6	30.529	128	57.63	324	29.126	177	36.34	54	56.026	205	10.38	32	54.73	41	27.00	247
16	30.657	71	60.87	323	29.303	136	35.80	49	56.231	160	10.70	41	55.14	29	29.47	262
25	30.728	13	64.10	312	29.439	90	35.31	40	56.391	110	11.11	49	55.43	17	32.09	270
35	30.741		67.22		29.529		34.91		56.501		11.60		55.60		34.79	
Mittl. Ort	27.692		62.38		25.824		36.33		52.365		12.86		47.31		33.44	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		1.149		+0.566		2.835		+2.652	
a, *a′*	+1.8		+0.2		+3.4		−0.4		+3.8		−1.0		+6.6		−1.1	
b, *b′*	0.00		−1.00		0.00		−1.00		0.00		−1.00		−0.01		−1.00	

Tag	240) ζ Canis maj. AR.		Dekl.		241) μ Geminorum AR.		Dekl.		243) β Canis maj. AR.		Dekl.		242) ψ^1 Aurigae AR.		Dekl.	
1945	$6^h\ 18^m$		−30° 2′		$6^h\ 19^m$		+22° 32′		$6^h\ 20^m$		−17° 55′		$6^h\ 20^m$		+49° 18′	
	s		″		s		″		s		″		s		″	
Jan. 0	12.873	25	20.81	272	38.261	77	33.54	9	17.183	44	43.07	221	40.369	93	63.20	170
10	12.898	$\overline{27}$	23.53	250	38.338	25	33.63	17	17.227	$\overline{5}$	45.28	203	40.462	21	64.90	170
20	12.871	77	26.03	222	38.363	$\overline{27}$	33.80	23	17.222	52	47.31	178	40.483	$\overline{50}$	66.60	163
30	12.794	124	28.25	189	38.336	74	34.03	27	17.170	96	49.09	150	40.433	117	68.23	150
Febr. 9	12.670	164	30.14	151	38.262	116	34.30	28	17.074	135	50.59	119	40.316	175	69.73	130
19	12.506	195	31.65	111	38.146	150	34.58	27	16.939	165	51.78	87	40.141	222	71.03	104
März 1	12.311	217	32.76	69	37.996	174	34.85	24	16.774	186	52.65	52	39.919	256	72.07	75
11	12.094	229	33.45	27	37.822	187	35.09	19	16.588	198	53.17	19	39.663	274	72.82	43
21	11.865	229	33.72	$\overline{16}$	37.635	188	35.28	13	16.390	199	53.36	$\overline{15}$	39.389	275	73.25	10
31	11.636	220	33.56	57	37.447	179	35.41	8	16.191	189	53.21	48	39.114	263	73.35	$\overline{22}$
Apr. 10	11.416	201	32.99	98	37.268	158	35.49	2	16.002	172	52.73	80	38.851	236	73.13	53
20	11.215	173	32.01	136	37.110	129	35.51	0	15.830	147	51.93	110	38.615	197	72.60	80
30	11.042	141	30.65	171	36.981	94	35.51	3	15.683	115	50.83	139	38.418	148	71.80	104
Mai 10	10.901	102	28.94	202	36.887	54	35.48	3	15.568	78	49.44	164	38.270	93	70.76	121
20	10.799	59	26.92	229	36.833	11	35.45	1	15.490	38	47.80	187	38.177	33	69.55	135
30	10.740	15	24.63	252	36.822	$\overline{33}$	35.44	$\overline{1}$	15.452	$\overline{2}$	45.93	206	38.144	$\overline{28}$	68.20	142
Juni 9	10.725	$\overline{29}$	22.11	268	36.855	77	35.45	5	15.454	43	43.87	220	38.172	89	66.78	146
19	10.754	72	19.43	277	36.932	117	35.50	10	15.497	83	41.67	228	38.261	148	65.32	144
29	10.826	113	16.66	279	37.049	156	35.60	12	15.580	120	39.39	231	38.409	202	63.88	139
Juli 9	10.939	153	13.87	274	37.205	191	35.72	16	15.700	155	37.08	226	38.611	252	62.49	131
19	11.092	188	11.13	260	37.396	220	35.88	18	15.855	186	34.82	216	38.863	297	61.18	119
29	11.280	219	8.53	238	37.616	247	36.06	18	16.041	213	32.66	198	39.160	334	59.99	106
Aug. 8	11.499	247	6.15	208	37.863	269	36.24	17	16.254	237	30.68	173	39.494	368	58.93	91
18	11.746	269	4.07	171	38.132	286	36.41	13	16.491	257	28.95	142	39.862	394	58.02	75
28	12.015	288	2.36	127	38.418	300	36.54	8	16.748	272	27.53	105	40.256	415	57.27	58
Sept. 7	12.303	301	1.09	78	38.718	311	36.62	2	17.020	284	26.48	64	40.671	430	56.69	39
17	12.604	309	0.31	25	39.029	317	36.64	$\overline{6}$	17.304	291	25.84	20	41.101	440	56.30	21
27	12.913	312	0.06	$\overline{29}$	39.346	321	36.58	13	17.595	294	25.64	$\overline{26}$	41.541	444	56.09	2
Okt. 7	13.225	309	0.35	82	39.667	320	36.45	19	17.889	294	25.90	71	41.985	444	56.07	$\overline{19}$
17	13.534	301	1.17	134	39.987	315	36.26	25	18.183	286	26.61	115	42.429	435	56.26	40
27	13.835	286	2.51	181	40.302	305	36.01	28	18.469	275	27.76	153	42.864	420	56.66	62
Nov. 6	14.121	263	4.32	221	40.607	290	35.73	28	18.744	257	29.29	186	43.284	396	57.28	84
16	14.384	235	6.53	252	40.897	268	35.45	26	19.001	233	31.15	211	43.680	363	58.12	105
26	14.619	200	9.05	274	41.165	238	35.19	22	19.234	201	33.26	229	44.043	321	59.17	125
Dez. 6	14.819	157	11.79	286	41.403	202	34.97	14	19.435	166	35.55	238	44.364	269	60.42	144
16	14.976	111	14.65	289	41.605	160	34.83	5	19.601	123	37.93	237	44.633	210	61.86	157
26	15.087	61	17.54	281	41.765	112	34.78	$\overline{4}$	19.724	77	40.30	230	44.843	142	63.43	167
35	^{26}15.148		20.35		^{26}41.877		34.82		^{26}19.801		42.60		^{27}44.985		65.10	
Mittl. Ort	12.028		15.79		37.951		37.13		16.589		38.37		39.777		65.84	
sec δ, tg δ	1.155		−0.578		1.083		+0.415		1.051		−0.324		1.534		+1.163	
a, *a′*	+2.3		−1.6		+3.6		−1.7		+2.6		−1.8		+4.6		−1.8	
b, *b′*	0.00		−1.00		0.00		−1.00		0.00		−1.00		−0.01		−1.00	

Tag	244) 8 ε Monocerotis				245) α Carinae			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1945	6h 20m		+4° 37′		6h 22m		−52° 39′	
	s		″		s		″	
Jan. 0	51.512	66	16.62	101	45.653	25	58.14	334
10	51.578	18	15.61	87	45.628	97	61.48	312
20	51.596	30	14.74	72	45.531	164	64.60	281
30	51.566	73	14.02	57	45.367	224	67.41	241
Febr. 9	51.493	112	13.45	40	45.143	276	69.82	196
19	51.381	143	13.05	26	44.867	317	71.78	149
März 1	51.238	165	12.79	12	44.550	345	73.27	98
11	51.073	176	12.67	2	44.205	361	74.25	45
21	50.897	178	12.69	15	43.844	363	74.70	7
31	50.719	169	12.84	28	43.481	352	74.63	60
Apr. 10	50.550	150	13.12	41	43.129	331	74.03	109
20	50.400	125	13.53	53	42.798	296	72.94	157
30	50.275	92	14.06	65	42.502	257	71.37	200
Mai 10	50.183	56	14.71	77	42.245	207	69.37	239
20	50.127	17	15.48	89	42.038	152	66.98	273
30	50.110	23	16.37	99	41.886	93	64.25	301
Juni 9	50.133	64	17.36	107	41.793	33	61.24	321
19	50.197	101	18.43	113	41.760	28	58.03	332
29	50.298	137	19.56	117	41.788	88	54.71	336
Juli 9	50.435	169	20.73	115	41.876	147	51.35	329
19	50.604	198	21.88	112	42.023	202	48.06	313
29	50.802	222	23.00	103	42.225	252	44.93	288
Aug. 8	51.024	243	24.03	90	42.477	297	42.05	253
18	51.267	260	24.93	73	42.774	335	39.52	210
28	51.527	273	25.66	54	43.109	366	37.42	159
Sept. 7	51.800	284	26.20	31	43.475	390	35.83	101
17	52.084	290	26.51	5	43.865	404	34.82	40
27	52.374	294	26.56	20	44.269	409	34.42	25
Okt. 7	52.668	293	26.36	46	44.678	404	34.67	89
17	52.961	289	25.90	68	45.082	388	35.56	150
27	53.250	279	25.22	88	45.470	362	37.06	207
Nov. 6	53.529	264	24.34	104	45.832	326	39.13	256
16	53.793	243	23.30	115	46.158	280	41.69	297
26	54.036	216	22.15	121	46.438	224	44.66	326
Dez. 6	54.252	181	20.94	121	46.662	161	47.92	343
16	54.433	143	19.73	116	46.823	93	51.35	350
26	[27] 54.576	98	18.57	107	[27] 46.916	21	54.85	343
35	54.674		17.50		46.937		58.28	
Mittl. Ort	51.162		20.77		43.807		53.43	
sec δ, tg δ	1.003		+0.081		1.649		−1.311	
a, *a′*	+3.2		−1.8		+1.3		−2.0	
b, *b′*	0.00		−1.00		+0.01		−1.00	

Tag	246) 10 Monocerotis				247) 8 Lyncis			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1945	6h 25m		−4° 43′		6h 32m		+61° 31′	
	s		″		s		″	
Jan. 0	14.959	62	39.99	156	41.11	12	53.27	232
10	15.021	15	41.55	139	41.23	3	55.59	232
20	15.036	32	42.94	121	41.26	7	57.91	223
30	15.004	76	44.15	99	41.19	16	60.14	204
Febr. 9	14.928	115	45.14	77	41.03	25	62.18	179
19	14.813	146	45.91	54	40.78	30	63.97	146
März 1	14.667	167	46.45	31	40.48	36	65.43	107
11	14.500	180	46.76	8	40.12	38	66.50	65
21	14.320	182	46.84	14	39.74	39	67.15	21
31	14.138	174	46.70	36	39.35	38	67.36	23
Apr. 10	13.964	156	46.34	56	38.97	35	67.13	64
20	13.808	131	45.78	77	38.62	30	66.49	102
30	13.677	101	45.01	97	38.32	24	65.47	136
Mai 10	13.576	65	44.04	115	38.08	17	64.11	162
20	13.511	27	42.89	130	37.91	9	62.49	184
30	13.484	12	41.59	145	37.82	1	60.65	198
Juni 9	13.496	52	40.14	155	37.81	7	58.67	207
19	13.548	90	38.59	163	37.88	15	56.60	209
29	13.638	125	36.96	165	38.03	23	54.51	206
Juli 9	13.763	158	35.31	163	38.26	30	52.45	197
19	13.921	188	33.68	157	38.56	36	50.48	185
29	14.109	212	32.11	144	38.92	41	48.63	167
Aug. 8	14.321	235	30.67	125	39.33	46	46.96	148
18	14.556	252	29.42	103	39.79	52	45.48	125
28	14.808	267	28.39	76	40.31	54	44.23	100
Sept. 7	15.075	278	27.63	45	40.85	56	43.23	74
17	15.353	286	27.18	12	41.41	59	42.49	44
27	15.639	290	27.06	23	42.00	59	42.05	14
Okt. 7	15.929	290	27.29	58	42.59	59	41.91	17
17	16.219	285	27.87	89	43.18	59	42.08	49
27	16.504	275	28.76	117	43.77	56	42.57	81
Nov. 6	16.779	261	29.93	141	44.33	54	43.38	113
16	17.040	240	31.34	159	44.87	49	44.51	145
26	17.280	212	32.93	169	45.36	43	45.96	172
Dez. 6	17.492	178	34.62	174	45.79	36	47.68	197
16	17.670	139	36.36	171	46.15	28	49.65	215
26	[28] 17.809	95	38.07	163	[30] 46.43	19	51.80	229
35	17.904		39.70		46.62		54.09	
Mittl. Ort	14.535		35.76		40.06		56.07	
sec δ, tg δ	1.003		−0.083		2.098		+1.844	
a, *a′*	+3.0		−2.2		+5.5		−2.8	
b, *b′*	0.00		−0.99		−0.02		−0.99	

Tag	249) ξ² Canis maj. AR.		Dekl.		251) γ Geminorum AR.		Dekl.		250) 51 Aurigae AR.		Dekl.		252) ν Puppis AR.		Dekl.	
1945	6ʰ 32ᵐ		−22° 54′		6ʰ 34ᵐ		+16° 26′		6ʰ 34ᵐ		+39° 26′		6 36ᵐ		−43° 8′	
	s		"		s		"		s		"		s		"	
Jan. 0	45.685	51	75.82	249	32.380	88	48.89	32	51.312	106	25.45	110	5.926	21	51.58	322
10	45.736	0	78.31	230	32.468	38	48.57	21	51.418	43	26.55	116	5.947	40	54.80	301
20	45.736	49	80.61	206	32.506	13	48.36	10	51.461	19	27.71	117	5.907	99	57.81	273
30	45.687	96	82.67	175	32.493	60	48.26	2	51.442	77	28.88	111	5.808	154	60.54	237
Febr. 9	45.591	136	84.42	142	32.433	103	48.24	7	51.365	130	29.99	102	5.654	202	62.91	197
19	45.455	168	85.84	107	32.330	137	48.31	12	51.235	172	31.01	86	5.452	239	64.88	152
März 1	45.287	192	86.91	70	32.193	163	48.43	15	51.063	204	31.87	68	5.213	267	66.40	105
11	45.095	206	87.61	32	32.030	178	48.58	17	50.859	223	32.55	46	4.946	284	67.45	56
21	44.889	209	87.93	5	31.852	181	48.75	18	50.636	227	33.01	23	4.662	288	68.01	7
31	44.680	203	87.88	42	31.671	174	48.93	19	50.409	220	33.24	0	4.374	281	68.08	42
Apr. 10	44.477	186	87.46	78	31.497	157	49.12	20	50.189	199	33.24	23	4.093	264	67.66	89
20	44.291	162	86.68	112	31.340	132	49.32	20	49.990	168	33.01	43	3.829	238	66.77	135
30	44.129	131	85.56	143	31.208	100	49.52	23	49.822	128	32.58	59	3.591	203	65.42	176
Mai 10	43.998	96	84.13	173	31.108	64	49.75	26	49.694	84	31.99	74	3.388	162	63.66	214
20	43.902	57	82.40	198	31.044	23	50.01	29	49.610	34	31.25	84	3.226	117	61.52	248
30	43.845	16	80.42	220	31.021	18	50.30	34	49.576	17	30.41	90	3.109	69	59.04	275
Juni 9	43.829	26	78.22	235	31.039	59	50.64	37	49.593	68	29.51	93	3.040	19	56.29	296
19	43.855	65	75.87	245	31.098	99	51.01	41	49.661	118	28.58	94	3.021	32	53.33	310
29	43.920	104	73.42	249	31.197	135	51.42	44	49.779	163	27.64	91	3.053	82	50.23	314
Juli 9	44.024	141	70.93	245	31.332	169	51.86	44	49.942	206	26.73	87	3.135	129	47.09	311
19	44.165	174	68.48	235	31.501	199	52.30	44	50.148	243	25.86	80	3.264	174	43.98	298
29	44.339	204	66.13	216	31.700	225	52.74	40	50.391	277	25.06	74	3.438	215	41.00	276
Aug. 8	44.543	229	63.97	191	31.925	248	53.14	35	50.668	304	24.32	66	3.653	252	38.24	245
18	44.772	252	62.06	158	32.173	266	53.49	26	50.972	329	23.66	58	3.905	284	35.79	206
28	45.024	271	60.48	119	32.439	282	53.75	15	51.301	348	23.08	50	4.189	311	33.73	158
Sept. 7	45.295	285	59.29	76	32.721	294	53.90	3	51.649	362	22.58	41	4.500	332	32.15	105
17	45.580	295	58.53	28	33.015	303	53.93	10	52.011	374	22.17	32	4.832	346	31.10	46
27	45.875	300	58.25	22	33.318	309	53.83	25	52.385	381	21.85	22	5.178	354	30.64	14
Okt. 7	46.175	301	58.47	70	33.627	310	53.58	37	52.766	382	21.63	12	5.532	354	30.78	75
17	46.476	296	59.17	118	33.937	308	53.21	49	53.148	379	21.51	1	5.886	345	31.53	135
27	46.772	286	60.35	161	34.245	301	52.72	58	53.527	370	21.52	14	6.231	329	32.88	189
Nov. 6	47.058	268	61.96	199	34.546	288	52.14	63	53.897	353	21.66	29	6.560	303	34.77	238
16	47.326	243	63.95	228	34.834	268	51.51	64	54.250	328	21.95	46	6.863	269	37.15	277
26	47.569	213	66.23	249	35.102	241	50.87	63	54.578	295	22.41	62	7.132	227	39.92	307
Dez. 6	47.782	175	68.72	260	35.343	208	50.24	57	54.873	254	23.03	78	7.359	177	42.99	325
16	47.957	132	71.32	264	35.551	168	49.67	50	55.127	204	23.81	92	7.536	121	46.24	333
26	48.089	85	73.96	257	35.719	123	49.17	38	55.331	147	24.73	105	^{30}7.657	62	49.57	330
35	^{30}48.174		76.53		^{30}35.842		48.79		^{30}55.478		25.78		7.719		52.87	
Mittl. Ort	44.993		71.84		32.071		52.63		50.898		28.83		4.611		48.04	
sec δ, tg δ	1.086		−0.423		1.043		+0.295		1.295		+0.823		1.371		−0.937	
a, *a′*	+2.5		−2.9		+3.5		−3.0		+4.2		−3.0		+1.8		−3.1	
b, *b′*	0.90		−0.99		0.00		−0.99		−0.01		−0.99		+0.01		−0.99	

Scheinbare Sternörter 1945

Tag	248) 23 H. Camelop. AR.		248) Dekl.		254) ε Geminorum AR.		254) Dekl.		256) ξ Geminorum AR.		256) Dekl.		257) α Canis maj.[1] AR.		257) Dekl.	
1945	$6^h\ 36^m$		$+79°\ 37'$		$6^h\ 40^m$		$+25°\ 11'$		$6^h\ 42^m$		$+12°\ 57'$		$6^h\ 42^m$		$-16°\ 38'$	
	s		″		s		″		s		″		s		″	
Jan. 0*)	57.21	21	42.85	307	^{0}33.216	101	10.98	22	^{1}12.444	92	19.90	57	^{1}44.138	62	24.71	226
10	57.42	$\overline{5}$	45.92	304	33.317	47	11.20	31	12.536	43	19.33	43	44.200	13	26.97	208
20	57.37	29	48.96	289	33.364	$\overline{7}$	11.51	39	12.579	$\overline{7}$	18.90	31	44.213	$\overline{36}$	29.05	184
30	57.08	52	51.85	264	33.357	57	11.90	43	12.572	54	18.59	19	44.177	82	30.89	157
Febr. 9	56.56	71	54.49	230	33.300	103	12.33	45	12.518	97	18.40	9	44.095	122	32.46	126
19	55.85	89	56.79	185	33.197	141	12.78	43	12.421	132	18.31	$\overline{1}$	43.973	155	33.72	95
März 1	54.96	101	58.64	135	33.056	170	13.21	38	12.289	158	18.32	7	43.818	179	34.67	63
11	53.95	109	59.99	80	32.886	186	13.59	32	12.131	174	18.39	14	43.639	193	35.30	29
21	52.86	111	60.79	24	32.700	191	13.91	23	11.957	178	18.53	18	43.446	198	35.59	$\overline{3}$
31	51.75	109	61.03	$\overline{33}$	32.509	185	14.14	15	11.779	173	18.71	22	43.248	191	35.56	35
Apr. 10	50.66	102	60.70	88	32.324	168	14.29	7	11.606	158	18.93	27	43.057	176	35.21	66
20	49.64	90	59.82	136	32.156	142	14.36	$\overline{1}$	11.448	134	19.20	30	42.881	153	34.55	96
30	48.74	76	58.46	180	32.014	109	14.35	7	11.314	104	19.50	35	42.728	124	33.59	123
Mai 10	47.98	59	56.66	217	31.905	71	14.28	11	11.210	68	19.85	40	42.604	89	32.36	149
20	47.39	40	54.49	245	31.834	29	14.17	13	11.142	30	20.25	46	42.515	52	30.87	170
30	46.99	19	52.04	266	31.805	$\overline{14}$	14.04	14	11.112	$\overline{10}$	20.71	50	42.463	13	29.17	189
Juni 9	46.80	$\overline{2}$	49.38	279	31.819	57	13.90	13	11.122	50	21.21	55	42.450	$\overline{27}$	27.28	203
19	46.82	23	46.59	283	31.876	99	13.77	12	11.172	88	21.76	59	42.477	66	25.25	213
29	47.05	44	43.76	280	31.975	139	13.65	10	11.260	124	22.35	61	42.543	103	23.12	215
Juli 9	47.49	63	40.96	270	32.114	174	13.55	8	11.384	158	22.96	62	42.646	137	20.97	213
19	48.12	81	38.26	253	32.288	206	13.47	7	11.542	188	23.58	59	42.783	169	18.84	204
29	48.93	97	35.73	232	32.494	235	13.40	7	11.730	214	24.17	53	42.952	198	16.80	187
Aug. 8	49.90	112	33.41	204	32.729	259	13.33	8	11.944	237	24.70	46	43.150	222	14.93	165
18	51.02	123	31.37	173	32.988	279	13.25	10	12.181	257	25.16	35	43.372	243	13.28	135
28	52.25	134	29.64	138	33.267	297	13.15	15	12.438	273	25.51	21	43.615	262	11.93	100
Sept. 7	53.59	141	28.26	100	33.564	310	13.00	18	12.711	285	25.72	6	43.877	275	10.93	61
17	55.00	147	27.26	59	33.874	320	12.82	24	12.996	296	25.78	$\overline{11}$	44.152	286	10.32	18
27	56.47	149	26.67	16	34.194	327	12.58	29	13.292	303	25.67	29	44.438	292	10.14	$\overline{26}$
Okt. 7	57.96	148	26.51	$\overline{28}$	34.521	331	12.29	32	13.595	305	25.38	46	44.730	294	10.40	71
17	59.44	146	26.79	72	34.852	329	11.97	35	13.900	305	24.92	60	45.024	291	11.11	114
27	60.90	139	27.51	117	35.181	322	11.62	35	14.205	299	24.32	72	45.315	281	12.25	152
Nov. 6	62.29	131	28.68	160	35.503	309	11.27	32	14.504	286	23.60	81	45.596	267	13.77	185
16	63.60	117	30.28	200	35.812	289	10.95	26	14.790	268	22.79	86	45.863	245	15.62	212
26	64.77	101	32.28	237	36.101	262	10.69	19	15.058	243	21.93	86	46.108	217	17.74	229
Dez. 6	65.78	83	34.65	267	36.363	227	10.50	9	15.301	210	21.07	81	46.325	182	20.03	240
16	66.61	61	37.32	289	36.590	185	10.41	$\overline{3}$	15.511	171	20.26	74	46.507	140	22.43	240
26	^{31}67.22	37	40.21	303	^{32}36.775	137	10.44	14	^{32}15.682	127	19.52	64	^{32}46.647	95	24.83	234
35	67.59		43.24		36.912		10.58		15.809		18.88		46.742		27.17	
Mittl. Ort	53.11		45.42		32.903		14.66		12.129		23.60		43.557		21.04	
sec δ, tg δ	5.555		+5.464		1.105		+0.470		1.026		+0.230		1.044		−0.299	
a, *a′*	+10.3		−3.2		+3.7		−3.5		+3.4		−3.7		+2.7		−3.7	
b, *b′*	−0.06		−0.99		−0.01		−0.98		0.00		−0.98		0.00		−0.98	

[1]) Ort des Hauptsterns; die jährliche Parallaxe (0.″377) ist bereits berücksichtigt.

*) Bei Stern 256) und 257) lies Jan. 1.

Tag	1177) 16 Monocerotis AR.		1177) 16 Monocerotis Dekl.		258) 18 Monocerotis AR.		258) 18 Monocerotis Dekl.		262) α Pictoris AR.		262) α Pictoris Dekl.		261) θ Geminorum AR.		261) θ Geminorum Dekl.	
1945	$6^h\ 43^m$		$+8°\ 38'$		$6^h\ 44^m$		$+2°\ 28'$		$6^h\ 47^m$		$-61°\ 52'$		$6^h\ 49^m$		$+34°\ 1'$	
	s		″		s		″		s		″		s		″	
Jan. 1	32.735	91	45.55	83	1 59.896	88	22.50	121	40.40	3	56.73	356	10.252	119	42.44	74
10	1 32.826	42	44.72	69	59.984	38	21.29	106	2 40.37	11	60.29	339	3 10.371	59	43.18	84
20	32.868	8	44.03	55	60.022	10	20.23	89	40.26	20	63.68	311	10.430	0	44.02	89
30	32.860	54	43.48	40	60.012	55	19.34	71	40.06	28	66.79	277	10.430	55	44.91	90
Febr. 9	32.806	96	43.08	27	59.957	97	18.63	53	39.78	35	69.56	235	10.375	106	45.81	86
19	32.710	130	42.81	14	59.860	131	18.10	35	39.43	41	71.91	188	10.269	149	46.67	77
März 1	32.580	156	42.67	3	59.729	156	17.75	19	39.02	45	73.79	138	10.120	181	47.44	65
11	32.424	172	42.64	8	59.573	172	17.56	3	38.57	47	75.17	85	9.939	202	48.09	49
21	32.252	177	42.72	16	59.401	177	17.53	13	38.10	49	76.02	32	9.737	209	48.58	33
31	32.075	171	42.88	25	59.224	171	17.66	28	37.61	48	76.34	22	9.528	204	48.91	14
Apr. 10	31.904	157	43.13	34	59.053	158	17.94	42	37.13	46	76.12	75	9.324	187	49.05	4
20	31.747	134	43.47	41	58.895	135	18.36	55	36.67	42	75.37	126	9.137	162	49.01	19
30	31.613	104	43.88	50	58.760	107	18.91	69	36.25	39	74.11	173	8.975	127	48.82	34
Mai 10	31.509	69	44.38	58	58.653	73	19.60	82	35.86	33	72.38	217	8.848	86	48.48	45
20	31.440	32	44.96	66	58.580	36	20.42	94	35.53	27	70.21	256	8.762	41	48.03	55
30	31.408	7	45.62	73	58.544	2	21.36	103	35.26	20	67.65	288	8.721	5	47.48	60
Juni 9	31.415	46	46.35	79	58.546	41	22.39	112	35.06	13	64.77	313	8.726	51	46.88	64
19	31.461	84	47.14	84	58.587	78	23.51	118	34.93	4	61.64	331	8.777	97	46.24	65
29	31.545	120	47.98	86	58.665	114	24.69	121	34.89	2	58.33	341	8.874	139	45.59	65
Juli 9	31.665	153	48.84	86	58.779	145	25.90	119	34.91	10	54.92	339	9.013	179	44.94	63
19	31.818	182	49.70	82	58.924	176	27.09	115	35.01	18	51.53	328	9.192	215	44.31	60
29	32.000	208	50.52	76	59.100	202	28.24	105	35.19	25	48.25	309	9.407	247	43.71	57
Aug. 8	32.208	232	51.28	65	59.302	224	29.29	92	35.44	31	45.16	278	9.654	274	43.14	54
18	32.440	250	51.93	51	59.526	245	30.21	75	35.75	38	42.38	238	9.928	298	42.60	51
28	32.690	267	52.44	34	59.771	261	30.96	53	36.13	42	40.00	189	10.226	317	42.09	48
Sept. 7	32.957	281	52.78	15	60.032	274	31.49	28	36.55	46	38.11	133	10.543	334	41.61	45
17	33.238	290	52.93	6	60.306	285	31.77	1	37.01	49	36.78	72	10.877	347	41.16	42
27	33.528	297	52.87	28	60.591	293	31.78	27	37.50	50	36.06	7	11.224	356	40.74	38
Okt. 7	33.825	301	52.59	49	60.884	295	31.51	54	38.00	51	35.99	59	11.580	359	40.36	32
17	34.126	300	52.10	68	61.179	294	30.97	79	38.51	49	36.58	125	11.939	360	40.04	25
27	34.426	293	51.42	85	61.473	289	30.18	102	39.00	46	37.83	186	12.299	354	39.79	17
Nov. 6	34.719	282	50.57	97	61.762	277	29.16	120	39.46	43	39.69	240	12.653	341	39.62	5
16	35.001	264	49.60	105	62.039	259	27.96	132	39.89	36	42.09	287	12.994	320	39.57	8
26	35.265	239	48.55	108	62.298	233	26.64	140	40.25	30	44.96	323	13.314	292	39.65	22
Dez. 6	35.504	207	47.47	106	62.531	202	25.24	141	40.55	21	48.19	347	13.606	254	39.87	38
16	35.711	168	46.41	100	62.733	164	23.83	137	40.76	13	51.66	361	13.860	209	40.25	53
26	32 35.879	124	45.41	91	33 62.897	120	22.46	128	33 40.89	4	55.27	361	34 14.069	158	40.78	67
35	36.003		44.50		63.017		21.18		40.93		58.88		14.227		41.45	
Mittl. Ort	32.404		49.22		59.530		26.09		37.62		54.80		9.900		46.21	
sec δ, tg δ	1.011		+0.152		1.001		+0.043		2.122		−1.871		1.207		+0.675	
a, a'	+3.3		−3.8		+3.1		−3.9		+0.6		−4.1		+4.0		−4.3	
b, b'	0.00		−0.98		0.00		−0.98		+0.03		−0.98		−0.01		−0.98	

Scheinbare Sternörter 1945

Tag	266) ϑ Canis maj. AR.		Dekl.		260) 24 H. Camelop. AR.		Dekl.		268) ε Canis maj. AR.		Dekl.		269) ζ Geminorum AR.		Dekl.	
1945	6h 51m		−11° 57′		6h 51m		+77° 2′		6h 56m		−28° 53′		7h 0m		+20° 39′	
	s		″		s		″		s		″		s		″	
Jan. 1	38.530	81	69.15	203	67.56	26	63.05	297	28.636	68	47.99	283	51.129	118	6.10	12
10	3 38.611	32	71.18	187	3 67.82	4	66.02	298	4 28.704	15	50.82	266	6 51.247	66	5.98	0
20	38.643	—17	73.05	166	67.86	—15	69.00	289	28.719	—38	53.48	242	51.313	13	5.98	12
30	38.626	63	74.71	142	67.71	34	71.89	268	28.681	87	55.90	212	51.326	—38	6.10	22
Febr. 9	38.563	105	76.13	114	67.37	52	74.57	239	28.594	132	58.02	178	51.288	84	6.32	28
19	38.458	139	77.27	86	66.85	66	76.96	199	28.462	169	59.80	141	51.204	124	6.60	33
März 1	38.319	165	78.13	58	66.19	77	78.95	152	28.293	197	61.21	100	51.080	154	6.93	33
11	38.154	181	78.71	28	65.42	84	80.47	100	28.096	215	62.21	60	50.926	174	7.26	33
21	37.973	187	78.99	0	64.58	87	81.47	45	27.881	223	62.81	18	50.752	182	7.59	29
31	37.786	184	78.99	29	63.71	87	81.92	—9	27.658	220	62.99	—22	50.570	180	7.88	25
Apr. 10	37.602	171	78.70	55	62.84	82	81.83	63	27.438	207	62.77	63	50.390	167	8.13	21
20	37.431	149	78.15	82	62.02	75	81.20	113	27.231	186	62.14	101	50.223	145	8.34	17
30	37.282	123	77.33	106	61.27	63	80.07	158	27.045	159	61.13	138	50.078	116	8.51	14
Mai 10	37.159	90	76.27	129	60.64	50	78.49	196	26.886	126	59.75	171	49.962	82	8.65	12
20	37.069	54	74.98	150	60.14	35	76.53	227	26.760	88	58.04	200	49.880	44	8.77	10
30	37.015	17	73.48	168	59.79	19	74.26	251	26.672	48	56.04	226	49.836	3	8.87	9
Juni 9	36.998	—22	71.80	181	59.60	2	71.75	267	26.624	6	53.78	245	49.833	—37	8.96	10
19	37.020	59	69.99	189	59.58	—14	69.08	274	26.618	—34	51.33	258	49.870	76	9.06	11
29	37.079	95	68.10	194	59.72	31	66.34	275	26.652	75	48.75	266	49.946	114	9.17	11
Juli 9	37.174	129	66.16	193	60.03	47	63.59	269	26.727	113	46.09	264	50.060	149	9.28	10
19	37.303	160	64.23	185	60.50	61	60.90	256	26.840	150	43.45	256	50.209	180	9.38	8
29	37.463	189	62.38	172	61.11	75	58.34	238	26.990	183	40.89	239	50.389	209	9.46	6
Aug. 8	37.652	213	60.66	152	61.86	86	55.96	214	27.173	214	38.50	214	50.598	235	9.52	1
18	37.865	235	59.14	126	62.72	97	53.82	187	27.387	241	36.36	182	50.833	257	9.53	—6
28	38.100	254	57.88	95	63.69	106	51.95	154	27.628	264	34.54	142	51.090	275	9.47	13
Sept. 7	38.354	270	56.93	60	64.75	112	50.41	120	27.892	284	33.12	96	51.365	292	9.34	23
17	38.624	281	56.33	20	65.87	117	49.21	81	28.176	299	32.16	46	51.657	304	9.11	33
27	38.905	290	56.13	—20	67.04	121	48.40	40	28.475	309	31.70	—7	51.961	315	8.78	42
Okt. 7	39.195	294	56.33	60	68.25	121	48.00	—2	28.784	314	31.77	61	52.276	320	8.36	51
17	39.489	294	56.93	100	69.46	120	48.02	46	29.098	312	32.38	113	52.596	323	7.85	59
27	39.783	287	57.93	136	70.66	116	48.48	90	29.410	305	33.51	161	52.919	320	7.26	62
Nov. 6	40.070	275	59.29	166	71.82	109	49.38	133	29.715	289	35.12	205	53.239	310	6.64	64
16	40.345	257	60.95	191	72.91	101	50.71	175	30.004	267	37.17	240	53.549	294	6.00	61
26	40.602	230	62.86	206	73.92	89	52.46	213	30.271	236	39.57	268	53.843	270	5.39	55
Dez. 6	40.832	197	64.92	216	74.81	74	54.59	246	30.507	198	42.25	284	54.113	238	4.84	46
16	41.029	158	67.08	217	75.55	57	57.05	272	30.705	153	45.09	292	54.351	199	4.38	34
26	34 41.187	114	69.25	211	35 76.12	38	59.77	291	30.858	104	48.01	289	54.550	154	4.04	22
35*)	41.301		71.36		76.50		62.68		30.962		50.90		54.704		3.82	
Mittl. Ort	38.019		66.07		64.49		66.54		27.805		45.76		50.834		9.83	
sec δ, tg δ	1.022		−0.212		4.463		+4.349		1.142		−0.552		1.069		+0.377	
a, a′	+2.8		−4.5		+8.7		−4.5		+2.4		−4.9		+3.6		−5.3	
b, b′	0.00		−0.97		−0.07		−0.97		+0.01		−0.97		−0.01		−0.96	

*) Bei Stern 268) und 269) lies Dez. 36.

Tag	271) γ Canis maj.				273) δ Canis maj.				274) 63 Aurigae				277) λ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$7^h\ 1^m$		$-15°32'$		$7^h\ 6^m$		$-26°18'$		$7^h\ 7^m$		$+39°24'$		$7^h\ 14^m$		$+16°38'$	
	s		"		s		"		s		"		s		"	
Jan. 1	16.717	88	64.77	224	10.006	83	18.39	275	52.857	147	39.74	102	56.240	129	25.04	42
10	6 16.805	38	67.01	209	7 10.089	29	21.14	260	7 53.004	85	40.76	114	9 56.369	78	24.62	28
20	16.843	$\overline{12}$	69.10	187	10.118	$\overline{23}$	23.74	237	53.089	21	41.90	121	56.447	26	24.34	14
30	16.831	60	70.97	162	10.095	73	26.11	209	53.110	$\overline{41}$	43.11	122	56.473	$\overline{26}$	24.20	0
Febr. 9	16.771	102	72.59	133	10.022	118	28.20	176	53.069	98	44.33	116	56.447	72	24.20	$\overline{11}$
19	16.669	138	73.92	103	9.904	156	29.96	141	52.971	146	45.49	107	56.375	112	24.31	18
März 1	16.531	165	74.95	72	9.748	185	31.37	102	52.825	184	46.56	91	56.263	143	24.49	25
11	16.366	183	75.67	39	9.563	203	32.39	63	52.641	209	47.47	72	56.120	165	24.74	28
21	16.183	191	76.06	9	9.360	213	33.02	24	52.432	222	48.19	50	55.955	175	25.02	29
31	15.992	189	76.15	$\overline{23}$	9.147	212	33.26	$\overline{15}$	52.210	221	48.69	26	55.780	175	25.31	29
Apr. 10	15.803	177	75.92	54	8.935	201	33.11	53	51.989	208	48.95	3	55.605	166	25.60	30
20	15.626	158	75.38	82	8.734	182	32.58	91	51.781	183	48.98	$\overline{20}$	55.439	146	25.90	29
30	15.468	132	74.56	110	8.552	156	31.67	126	51.598	151	48.78	40	55.293	121	26.19	27
Mai 10	15.336	100	73.46	134	8.396	125	30.41	158	51.447	110	48.38	58	55.172	89	26.46	28
20	15.236	65	72.12	158	8.271	89	28.83	187	51.337	65	47.80	73	55.083	53	26.74	29
30	15.171	29	70.54	177	8.182	51	26.96	211	51.272	17	47.07	85	55.030	15	27.03	29
Juni 9	15.142	$\overline{9}$	68.77	192	8.131	11	24.85	232	51.255	$\overline{31}$	46.22	92	55.015	$\overline{23}$	27.32	30
19	15.151	47	66.85	204	8.120	$\overline{29}$	22.53	245	51.286	78	45.30	98	55.038	61	27.62	31
29	15.198	84	64.81	208	8.149	68	20.08	252	51.364	125	44.32	101	55.099	97	27.93	30
Juli 9	15.282	118	62.73	207	8.217	105	17.56	253	51.489	168	43.31	102	55.196	131	28.23	29
19	15.400	149	60.66	200	8.322	141	15.03	245	51.657	207	42.29	100	55.327	162	28.52	26
29	15.549	180	58.66	187	8.463	174	12.58	230	51.864	243	41.29	96	55.489	191	28.78	20
Aug. 8	15.729	206	56.79	166	8.637	204	10.28	207	52.107	274	40.33	93	55.680	217	28.98	14
18	15.935	229	55.13	139	8.841	231	8.21	176	52.381	302	39.40	88	55.897	240	29.12	4
28	16.164	250	53.74	107	9.072	254	6.45	139	52.683	327	38.52	83	56.137	260	29.16	$\overline{8}$
Sept. 7	16.414	267	52.67	69	9.326	275	5.06	96	53.010	347	37.69	75	56.397	277	29.08	20
17	16.681	281	51.98	28	9.601	292	4.10	47	53.357	363	36.94	68	56.674	293	28.88	35
27	16.962	291	51.70	$\overline{16}$	9.893	302	3.63	$\overline{4}$	53.720	377	36.26	60	56.967	304	28.53	48
Okt. 7	17.253	297	51.86	59	10.195	310	3.67	56	54.097	385	35.66	49	57.271	313	28.05	62
17	17.550	297	52.45	102	10.505	311	4.23	107	54.482	387	35.17	36	57.584	317	27.43	73
27	17.847	293	53.47	141	10.816	305	5.30	154	54.869	385	34.81	21	57.901	316	26.70	81
Nov. 6	18.140	282	54.88	175	11.121	292	6.84	197	55.254	374	34.60	4	58.217	309	25.89	86
16	18.422	263	56.63	202	11.413	271	8.81	231	55.628	356	34.56	$\overline{15}$	58.526	296	25.03	87
26	18.685	238	58.65	222	11.684	244	11.12	259	55.984	327	34.71	34	58.822	274	24.16	83
Dez. 6	18.923	205	60.87	233	11.928	207	13.71	275	56.311	290	35.05	55	59.096	244	23.33	76
16	19.128	165	63.20	237	12.135	165	16.46	283	56.601	243	35.60	75	59.340	206	22.57	66
26	19.293	121	65.57	232	12.300	117	19.29	282	56.844	188	36.35	92	59.546	163	21.91	52
36	19.414		67.89		12.417		22.11		57.032		37.27		59.709		21.39	
Mittl. Ort	16.157		62.31		9.243		16.74		52.474		43.98		55.956		28.58	
sec δ, tg δ	1.038		−0.278		1.116		−0.494		1.294		+0.822		1.044		+0.299	
a, *a'*	+2.7		−5.3		+2.4		−5.7		+4.1		−5.8		+3.5		−6.4	
b, *b'*	0.00		−0.96		+0.01		−0.96		−0.02		−0.96		−0.01		−0.95	

Scheinbare Sternörter 1945

Tag	278) π Puppis AR.		278) π Puppis Dekl.		279) δ Geminorum AR.		279) δ Geminorum Dekl.		281) δ Volantis AR.		281) δ Volantis Dekl.		280) 19 Lyncis sq AR.		280) 19 Lyncis sq Dekl.	
1945	$7^h\ 15^m$		$-36°\ 59'$		$7^h\ 16^m$		$+22°\ 4'$		$7^h\ 16^m$		$-67°\ 51'$		$7^h\ 18^m$		$+55°\ 22'$	
	s		″		s		″		s		″		s		″	
Jan. 1	13.025	81	51.55	317	[10]50.631	137	63.39	8	[10]55.55	2	22.09	368	[10]23.875	196	69.55	190
10	[9]13.106	22	54.72	304	50.768	83	63.31	$\overline{6}$	55.57	$\overline{10}$	25.77	358	24.071	112	71.45	202
20	13.128	$\overline{35}$	57.76	282	50.851	29	63.37	19	55.47	21	29.35	338	24.183	27	73.47	206
30	13.093	90	60.58	252	50.880	$\overline{23}$	63.56	30	55.26	31	32.73	310	24.210	$\overline{56}$	75.53	202
Febr. 9	13.003	140	63.10	217	50.857	72	63.86	37	54.95	41	35.83	274	24.154	132	77.55	189
19	12.863	182	65.27	178	50.785	113	64.23	42	54.54	48	38.57	230	24.022	199	79.44	168
März 1	12.681	214	67.05	136	50.672	146	64.65	43	54.06	54	40.87	184	23.823	252	81.12	141
11	12.467	236	68.41	91	50.526	169	65.08	41	53.52	58	42.71	134	23.571	289	82.53	108
21	12.231	248	69.32	46	50.357	181	65.49	37	52.94	61	44.05	81	23.282	310	83.61	72
31	11.983	249	69.78	0	50.176	181	65.86	32	52.33	61	44.86	27	22.972	314	84.33	33
Apr. 10	11.734	239	69.78	45	49.995	171	66.18	25	51.72	60	45.13	$\overline{26}$	22.658	300	84.66	$\overline{6}$
20	11.495	222	69.33	89	49.824	151	66.43	20	51.12	58	44.87	80	22.358	272	84.60	43
30	11.273	195	68.44	130	49.673	125	66.63	14	50.54	53	44.07	130	22.086	232	84.17	78
Mai 10	11.078	163	67.14	169	49.548	93	66.77	9	50.01	48	42.77	177	21.854	181	83.39	108
20	10.915	127	65.45	203	49.455	56	66.86	5	49.53	41	41.00	220	21.673	124	82.31	134
30	10.788	86	63.42	233	49.399	16	66.91	3	49.12	34	38.80	259	21.549	62	80.97	156
Juni 9	10.702	43	61.09	258	49.383	$\overline{22}$	66.94	0	48.78	25	36.21	290	21.487	$\overline{3}$	79.41	172
19	10.659	$\overline{1}$	58.51	275	49.405	62	66.94	0	48.53	16	33.31	315	21.490	68	77.69	183
29	10.660	44	55.76	286	49.467	100	66.94	2	48.37	7	30.16	330	21.558	130	75.86	188
Juli 9	10.704	86	52.90	288	49.567	134	66.92	4	48.30	$\overline{3}$	26.86	337	21.688	190	73.98	191
19	10.790	128	50.02	282	49.701	168	66.88	7	48.33	12	23.49	333	21.878	246	72.07	187
29	10.918	166	47.20	267	49.869	197	66.81	10	48.45	22	20.16	321	22.124	298	70.20	181
Aug. 8	11.084	203	44.53	243	50.066	223	66.71	15	48.67	31	16.95	296	22.422	343	68.39	171
18	11.287	236	42.10	211	50.289	248	66.56	21	48.98	39	13.99	262	22.765	384	66.68	157
28	11.523	266	39.99	170	50.537	268	66.35	29	49.37	46	11.37	219	23.149	421	65.11	142
Sept. 7	11.789	290	38.29	123	50.805	287	66.06	37	49.83	53	9.18	168	23.570	451	63.69	124
17	12.079	311	37.06	69	51.092	302	65.69	46	50.36	57	7.50	109	24.021	476	62.45	104
27	12.390	327	36.37	13	51.394	314	65.23	55	50.93	60	6.41	45	24.497	495	61.41	80
Okt. 7	12.717	335	36.24	$\overline{45}$	51.708	324	64.68	63	51.53	62	5.96	$\overline{21}$	24.992	508	60.61	54
17	13.052	336	36.69	103	52.032	328	64.05	68	52.15	62	6.17	88	25.500	513	60.07	27
27	13.388	331	37.72	158	52.360	328	63.37	70	52.77	59	7.05	152	26.013	510	59.80	$\overline{4}$
Nov. 6	13.719	316	39.30	208	52.688	321	62.67	70	53.36	54	8.57	212	26.523	496	59.84	35
16	14.035	293	41.38	250	53.009	307	61.97	66	53.90	48	10.69	264	27.019	470	60.19	66
26	14.328	261	43.88	283	53.316	285	61.31	58	54.38	40	13.33	306	27.489	434	60.85	99
Dez. 6	14.589	220	46.71	307	53.601	255	60.73	47	54.78	31	16.39	339	27.923	383	61.84	129
16	14.809	172	49.78	319	53.856	216	60.26	34	55.09	20	19.78	360	28.306	322	63.13	156
26	14.981	118	52.97	322	54.072	172	59.92	19	55.29	9	23.38	369	28.628	250	64.69	179
36	15.099		56.19		54.244		59.73		55.38		27.07		28.878		66.48	
Mittl. Ort	11.962		51.19		50.352		67.19		51.80		23.61		23.181		74.44	
sec δ, tg δ	1.252		−0.754		1.079		+0.406		2.653		−2.457		1.761		+1.449	
a, a'	+2.1		−6.5		+3.6		−6.6		0.0		−6.6		+4.9		−6.7	
b, b'	+0.02		−0.95		−0.01		−0.94		+0.05		−0.94		−0.03		−0.94	

Tag		282) ι Geminorum				285) β Canis min.				284) Grb 1308 Caml				286) ρ Geminorum			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$7^h\ 22^m$		$+27°\ 54'$		$7^h\ 24^m$		$+8°\ 23'$		$7^h\ 25^m$		$+68°\ 34'$		$7^h\ 25^m$		$+31°\ 53'$	
Jan.	1	19.026	148	28.81	26	10.389	130	63.21	97	11.91	28	46.18	252	34.843	158	39.87	51
	11	19.174	94	29.07	41	10.519	81	62.24	81	12.19	15	48.70	264	35.001	101	40.38	66
	20	[11] 19.268	37	29.48	54	[11] 10.600	31	61.43	65	[12] 12.34	2	51.34	265	[12] 35.102	42	41.04	77
	30	19.305	19	30.02	62	10.631	19	60.78	47	12.36	10	53.99	258	35.144	16	41.81	86
Febr.	9	19.286	70	30.64	67	10.612	65	60.31	31	12.26	22	56.57	239	35.128	70	42.67	88
	19	19.216	115	31.31	67	10.547	105	60.00	16	12.04	32	58.96	211	35.058	117	43.55	86
März	1	19.101	150	31.98	64	10.442	136	59.84	3	11.72	41	61.07	176	34.941	154	44.41	79
	11	18.951	175	32.62	57	10.306	157	59.81	9	11.31	47	62.83	133	34.787	180	45.20	69
	21	18.776	188	33.19	47	10.149	170	59.90	19	10.84	50	64.16	86	34.607	194	45.89	55
	31	18.588	190	33.66	36	9.979	170	60.09	28	10.34	51	65.02	37	34.413	198	46.44	39
Apr.	10	18.398	180	34.02	23	9.809	162	60.37	36	9.83	50	65.39	12	34.215	188	46.83	23
	20	18.218	162	34.25	11	9.647	146	60.73	42	9.33	46	65.27	59	34.027	169	47.06	6
	30	18.056	134	34.36	0	9.501	122	61.15	50	8.87	40	64.68	104	33.858	142	47.12	8
Mai	10	17.922	101	34.36	10	9.379	93	61.65	56	8.47	33	63.64	144	33.716	108	47.04	23
	20	17.821	64	34.26	19	9.286	60	62.21	62	8.14	25	62.20	177	33.608	69	46.81	34
	30	17.757	23	34.07	25	9.226	24	62.83	68	7.89	16	60.43	206	33.539	28	46.47	43
Juni	9	17.734	18	33.82	31	9.202	11	63.51	71	7.73	5	58.37	227	33.511	15	46.04	51
	19	17.752	59	33.51	35	9.213	48	64.22	75	7.68	4	56.10	242	33.526	57	45.53	57
	29	17.811	98	33.16	38	9.261	82	64.97	75	7.72	14	53.68	250	33.583	98	44.96	61
Juli	9	17.909	135	32.78	40	9.343	115	65.72	74	7.86	24	51.18	252	33.681	137	44.35	64
	19	18.044	170	32.38	43	9.458	146	66.46	70	8.10	32	48.66	248	33.818	173	43.71	66
	29	18.214	201	31.95	45	9.604	174	67.16	62	8.42	41	46.18	239	33.991	206	43.05	68
Aug.	8	18.415	230	31.50	47	9.778	200	67.78	51	8.83	49	43.79	225	34.197	236	42.37	69
	18	18.645	254	31.03	51	9.978	222	68.29	37	9.32	56	41.54	206	34.433	263	41.68	70
	28	18.899	278	30.52	55	10.200	244	68.66	20	9.88	61	39.48	183	34.696	286	40.98	72
Sept.	7	19.177	297	29.97	59	10.444	262	68.86	0	10.49	67	37.65	157	34.982	308	40.26	72
	17	19.474	315	29.38	62	10.706	278	68.86	22	11.16	71	36.08	127	35.290	326	39.54	72
	27	19.789	328	28.76	65	10.984	291	68.64	43	11.87	74	34.81	94	35.616	340	38.82	72
Okt.	7	20.117	338	28.11	67	11.275	301	68.21	65	12.61	76	33.87	58	35.956	352	38.10	68
	17	20.455	344	27.44	66	11.576	306	67.56	85	13.37	77	33.29	19	36.308	357	37.42	64
	27	20.799	344	26.78	62	11.882	307	66.71	102	14.14	76	33.10	21	36.665	359	36.78	57
Nov.	6	21.143	338	26.16	56	12.189	302	65.69	115	14.90	74	33.31	63	37.024	353	36.21	45
	16	21.481	325	25.60	47	12.491	289	64.54	124	15.64	70	33.94	104	37.377	339	35.76	33
	26	21.806	302	25.13	33	12.780	269	63.30	126	16.34	64	34.98	144	37.716	316	35.43	17
Dez.	6	22.108	271	24.80	19	13.049	241	62.04	124	16.98	56	36.42	181	38.032	284	35.26	2
	16	22.379	232	24.61	2	13.290	205	60.80	117	17.54	47	38.23	213	38.316	244	35.28	20
	26	22.611	185	24.59	15	13.495	163	59.63	106	18.01	36	40.36	239	38.560	196	35.48	39
	36	22.796		24.74		13.658		58.57		18.37		42.75		38.756		35.87	
Mittl. Ort		18.743		32.92		10.087		66.16		10.46		51.51		34.548		44.22	
sec δ, tg δ		1.132		+0.530		1.011		+0.148		2.738		+2.549		1.178		+0.622	
a, *a'*		+3.7		−7.0		+3.3		−7.2		+6.2		−7.3		+3.8		−7.3	
b, *b'*		−0.01		−0.94		0.00		−0.93		−0.06		−0.93		−0.02		−0.93	

Tag		287) α Geminorum[1]				289) 25 Monocerotis				291) α Canis min.[2]				292) 24 Lyncis			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$7^h\ 31^m$		$+32°\ 0'$		$7^h\ 34^m$		$-3°\ 59'$		$7^h\ 36^m$		$+5°\ 21'$		$7^h\ 38^m$		$+58°\ 50'$	
		s		″		s		″		s		″		s		″	
Jan.	1	5.813	164	35.16	48	32.954	130	14.19	173	25.716	135	58.97	121	22.591	244	23.23	199
	11	13 5.977	106	35.64	64	14 33.084	81	15.92	158	15 25.851	86	57.76	105	15 22.835	154	25.22	216
	20	6.083	47	36.28	77	33.165	31	17.50	138	25.937	35	56.71	87	22.989	61	27.38	224
	30	6.130	$\overline{11}$	37.05	86	33.196	$\overline{17}$	18.88	118	25.972	$\overline{14}$	55.84	68	23.050	$\overline{32}$	29.62	223
Febr.	9	6.119	65	37.91	89	33.179	63	20.06	95	25.958	60	55.16	49	23.018	118	31.85	212
	19	6.054	113	38.80	88	33.116	103	21.01	71	25.898	100	54.67	32	22.900	194	33.97	194
März	1	5.941	151	39.68	81	33.013	134	21.72	49	25.798	132	54.35	15	22.706	258	35.91	167
	11	5.790	178	40.49	71	32.879	156	22.21	26	25.666	155	54.20	0	22.448	305	37.58	133
	21	5.612	194	41.20	58	32.723	169	22.47	4	25.511	167	54.20	12	22.143	334	38.91	96
	31	5.418	198	41.78	42	32.554	173	22.51	$\overline{17}$	25.344	171	54.32	25	21.809	344	39.87	55
Apr.	10	5.220	190	42.20	25	32.381	166	22.34	37	25.173	164	54.57	35	21.465	338	40.42	13
	20	5.030	172	42.45	9	32.215	152	21.97	56	25.009	148	54.92	45	21.127	314	40.55	$\overline{29}$
	30	4.858	145	42.54	$\overline{7}$	32.063	130	21.41	73	24.861	127	55.37	54	20.813	276	40.26	68
Mai	10	4.713	113	42.47	21	31.933	103	20.68	90	24.734	99	55.91	62	20.537	227	39.58	103
	20	4.600	74	42.26	34	31.830	73	19.78	105	24.635	67	56.53	70	20.310	168	38.55	134
	30	4.526	33	41.92	44	31.757	40	18.73	118	24.568	34	57.23	77	20.142	105	37.21	161
Juni	9	4.493	$\overline{8}$	41.48	53	31.717	5	17.55	129	24.534	$\overline{2}$	58.00	82	20.037	37	35.60	182
	19	4.501	51	40.95	58	31.712	$\overline{29}$	16.26	136	24.536	37	58.82	85	20.000	$\overline{32}$	33.78	198
	29	4.552	92	40.37	64	31.741	63	14.90	141	24.573	70	59.67	86	20.032	100	31.80	208
Juli	9	4.644	130	39.73	67	31.804	96	13.49	140	24.643	103	60.53	84	20.132	166	29.72	213
	19	4.774	167	39.06	71	31.900	126	12.09	135	24.746	134	61.37	79	20.298	228	27.59	214
	29	4.941	199	38.35	72	32.026	155	10.74	126	24.880	162	62.16	71	20.526	287	25.45	210
Aug.	8	5.140	230	37.63	74	32.181	182	9.48	110	25.042	188	62.87	58	20.813	340	23.35	201
	18	5.370	258	36.89	75	32.363	207	8.38	91	25.230	212	63.45	43	21.153	389	21.34	190
	28	5.628	282	36.14	77	32.570	229	7.47	66	25.442	234	63.88	24	21.542	433	19.44	175
Sept.	7	5.910	303	35.37	78	32.799	248	6.81	38	25.676	253	64.12	1	21.975	470	17.69	157
	17	6.213	323	34.59	79	33.047	267	6.43	6	25.929	270	64.13	$\overline{22}$	22.445	503	16.12	134
	27	6.536	338	33.80	78	33.314	281	6.37	$\overline{27}$	26.199	285	63.91	47	22.948	528	14.78	110
Okt.	7	6.874	351	33.02	75	33.595	293	6.64	61	26.484	295	63.44	72	23.476	548	13.68	82
	17	7.225	357	32.27	70	33.888	299	7.25	93	26.779	303	62.72	95	24.024	559	12.86	51
	27	7.582	360	31.57	62	34.187	301	8.18	123	27.082	304	61.77	115	24.583	560	12.35	17
Nov.	6	7.942	355	30.95	52	34.488	297	9.41	148	27.386	300	60.62	131	25.143	550	12.18	$\overline{17}$
	16	8.297	341	30.43	38	34.785	285	10.89	168	27.686	289	59.31	142	25.693	528	12.35	54
	26	8.638	320	30.05	21	35.070	266	12.57	181	27.975	270	57.89	148	26.221	492	12.89	90
Dez.	6	8.958	289	29.84	3	35.336	238	14.38	188	28.245	243	56.41	147	26.713	441	13.79	126
	16	9.247	249	29.81	$\overline{17}$	35.574	203	16.26	187	28.488	209	54.94	141	27.154	377	15.05	157
	26	9.496	201	29.98	36	35.777	162	18.13	180	28.697	167	53.53	131	27.531	302	16.62	185
	36	9.697		30.34		35.939		19.93		28.864		52.22		27.833		18.47	
Mittl. Ort		5.526		39.59		32.573		12.49		25.410		61.52		21.821		29.02	
sec δ, tg δ		1.179		+0.625		1.002		−0.070		1.004		+0.094		1.933		+1.654	
a, a′		+3.8		−7.8		+3.0		−8.0		+3.2		−8.2		+5.1		−8.3	
b, b′		−0.02		−0.92		0.00		−0.92		0.00		−0.91		−0.05		−0.91	

[1]) Ort des helleren Sterns.

[2]) Ort des hellen Sterns; die jährliche Parallaxe (0″.291) ist bereits berücksichtigt.

Tag	294) ϰ Geminorum AR.	Diff.	294) ϰ Geminorum Dekl.	Diff.	295) β Geminorum[1] AR.	Diff.	295) β Geminorum[1] Dekl.	Diff.	297) ζ Volantis AR.	Diff.	297) ζ Volantis Dekl.	Diff.	296) π Geminorum AR.	Diff.	296) π Geminorum Dekl.	Diff.
1945	$7^h\ 41^m$		$+24°\ 31'$		$7^h\ 41^m$		$+28°\ 9'$		$7^h\ 42^m$		$-72°\ 28'$		$7^h\ 43^m$		$+33°\ 32'$	
	s		"		s		"		s		"		s		"	
Jan. 1	7.994	165	49.70	3	57.414	167	34.22	20	35.53	7	22.70	371	58.060	181	64.06	53
11	16 8.159	111	49.67	16	16 57.581	113	34.42	38	16 35.60	7	26.41	368	16 58.241	123	64.59	70
20	8.270	55	49.83	31	57.694	56	34.80	53	35.53	21	30.09	356	58.364	63	65.29	86
30	8.325	1	50.14	43	57.750	1	35.33	65	35.32	34	33.65	333	58.427	3	66.15	96
Febr. 9	8.326	50	50.57	53	57.749	54	35.98	72	34.98	45	36.98	302	58.430	53	67.11	100
19	8.276	96	51.10	58	57.695	100	36.70	75	34.53	56	40.00	265	58.377	103	68.11	99
März 1	8.180	134	51.68	59	57.595	139	37.45	73	33.97	65	42.65	222	58.274	144	69.10	93
11	8.046	160	52.27	57	57.456	167	38.18	67	33.32	71	44.87	174	58.130	174	70.03	83
21	7.886	176	52.84	51	57.289	183	38.85	58	32.61	75	46.61	124	57.956	192	70.86	68
31	7.710	181	53.35	43	57.106	189	39.43	46	31.86	76	47.85	71	57.764	199	71.54	52
Apr. 10	7.529	175	53.78	35	56.917	183	39.89	34	31.10	77	48.56	18	57.565	193	72.06	34
20	7.354	161	54.13	25	56.734	167	40.23	21	30.33	75	48.74	35	57.372	178	72.40	14
30	7.193	137	54.38	16	56.567	143	40.44	7	29.58	71	48.39	88	57.194	153	72.54	3
Mai 10	7.056	108	54.54	7	56.424	113	40.51	4	28.87	66	47.51	139	57.041	122	72.51	20
20	6.948	73	54.61	1	56.311	78	40.47	15	28.21	59	46.12	185	56.919	86	72.31	35
30	6.875	37	54.60	7	56.233	40	40.32	24	27.62	50	44.27	227	56.833	45	71.96	48
Juni 9	6.838	1	54.53	12	56.193	0	40.08	32	27.12	41	42.00	264	56.788	4	71.48	59
19	6.839	40	54.41	18	56.193	40	39.76	38	26.71	30	39.36	294	56.784	38	70.89	67
29	6.879	77	54.23	22	56.233	78	39.38	43	26.41	18	36.42	315	56.822	79	70.22	74
Juli 9	6.956	113	54.01	26	56.311	115	38.95	48	26.23	7	33.27	329	56.901	118	69.48	80
19	7.069	146	53.75	30	56.426	150	38.47	52	26.16	5	29.98	333	57.019	156	68.68	83
29	7.215	178	53.45	35	56.576	182	37.95	56	26.21	17	26.65	326	57.175	189	67.85	87
Aug. 8	7.393	206	53.10	41	56.758	212	37.39	60	26.38	29	23.39	308	57.364	221	66.98	89
18	7.599	232	52.69	47	56.970	239	36.79	65	26.67	40	20.31	281	57.585	251	66.09	91
28	7.831	256	52.22	54	57.209	263	36.14	70	27.07	51	17.50	244	57.836	276	65.18	93
Sept. 7	8.087	278	51.68	62	57.472	285	35.44	75	27.58	59	15.06	197	58.112	301	64.25	94
17	8.365	297	51.06	69	57.757	305	34.69	78	28.17	67	13.09	142	58.413	321	63.31	93
27	8.662	313	50.37	76	58.062	322	33.91	82	28.84	72	11.67	80	58.734	340	62.38	92
Okt. 7	8.975	327	49.61	82	58.384	336	33.09	84	29.56	76	10.87	15	59.074	354	61.46	87
17	9.302	335	48.79	84	58.720	344	32.25	83	30.32	76	10.72	51	59.428	364	60.59	81
27	9.637	339	47.95	85	59.064	348	31.42	79	31.08	74	11.23	117	59.792	368	59.78	72
Nov. 6	9.976	337	47.10	81	59.412	345	30.63	71	31.82	69	12.40	180	60.160	365	59.06	59
16	10.313	326	46.29	74	59.757	334	29.92	61	32.51	64	14.20	237	60.525	355	58.47	44
26	10.639	307	45.55	63	60.091	315	29.31	47	33.15	54	16.57	285	60.880	334	58.03	25
Dez. 6	10.946	280	44.92	49	60.406	286	28.84	31	33.69	42	19.42	323	61.214	305	57.78	4
16	11.226	243	44.43	33	60.692	249	28.53	11	34.11	29	22.65	351	61.519	266	57.74	18
26	11.469	199	44.10	14	60.941	203	28.42	8	34.40	17	26.16	367	61.785	218	57.92	39
36	11.668		43.96		61.144		28.50		34.57		29.83		62.003		58.31	
Mittl. Ort	7.750		53.72		57.161		38.51		30.64		27.34		57.789		68.78	
sec δ, tg δ	1.099		+0.456		1.134		+0.535		3.321		−3.167		1.200		+0.663	
a, *a'*	+3.6		−8.6		+3.7		−8.6		−0.7		−8.7		+3.9		−8.8	
b, *b'*	−0.01		−0.90		−0.02		−0.90		+0.09		−0.90		−0.02		−0.90	

[1]) Die jährliche Parallaxe (0".100) ist bereits berücksichtigt.

Scheinbare Sternörter 1945

Tag		300) Grb 1374 Caml AR.		300) Dekl.		303) χ Carinae AR.		303) Dekl.		305) χ Geminorum AR.		305) Dekl.		306) ζ Puppis AR.		306) Dekl.	
1945		7h 53m		+74° 3′		7h 55m		−52° 49′		8h 0m		+27° 56′		8h 1m		−39° 50′	
Jan.	1	41.18 s	43	58.37″	260	24.558 s	123	57.67″	362	8.782 s	189	56.02″	11	40.068 s	137	46.08″	335
	11	41.61	27	60.97	279	24.681	48	61.29	359	8.971	135	56.13	31	40.205	77	49.43	329
	20*)	[19] 41.88	11	63.76	287	[19] 24.729	$\overline{26}$	64.88	345	9.106	78	56.44	49	40.282	15	52.72	314
	30	41.99	$\overline{7}$	66.63	285	24.703	98	68.33	322	[21] 9.184	21	56.93	63	[21] 40.297	$\overline{44}$	55.86	291
Febr.	9	41.92	22	69.48	272	24.605	165	71.55	291	9.205	$\overline{33}$	57.56	73	40.253	99	58.77	261
	19	41.70	37	72.20	247	24.440	222	74.46	255	9.172	82	58.29	78	40.154	148	61.38	226
März	1	41.33	49	74.67	212	24.218	270	77.01	212	9.090	123	59.07	79	40.006	189	63.64	187
	11	40.84	58	76.79	171	23.948	307	79.13	166	8.967	153	59.86	75	39.817	219	65.51	144
	21	40.26	66	78.50	123	23.641	330	80.79	117	8.814	174	60.61	67	39.598	240	66.95	99
	31	39.60	68	79.73	72	23.311	342	81.96	66	8.640	182	61.28	56	39.358	250	67.94	53
Apr.	10	38.92	68	80.45	19	22.969	342	82.62	15	8.458	181	61.84	44	39.108	249	68.47	8
	20	38.24	66	80.64	$\overline{34}$	22.627	331	82.77	$\overline{36}$	8.277	169	62.28	31	38.859	240	68.55	$\overline{39}$
	30	37.58	60	80.30	84	22.296	311	82.41	86	8.108	148	62.59	17	38.619	223	68.16	82
Mai	10	36.98	52	79.46	131	21.985	281	81.55	133	7.960	121	62.76	4	38.396	198	67.34	125
	20	36.46	43	78.15	172	21.704	244	80.22	178	7.839	89	62.80	$\overline{8}$	38.198	167	66.09	164
	30	36.03	31	76.43	206	21.460	201	78.44	217	7.750	53	62.72	19	38.031	133	64.45	200
Juni	9	35.72	19	74.37	236	21.259	153	76.27	252	7.697	16	62.53	29	37.898	95	62.45	230
	19	35.53	7	72.01	258	21.106	102	73.75	281	7.681	$\overline{22}$	62.24	36	37.803	55	60.15	254
	29	35.46	$\overline{6}$	69.43	272	21.004	48	70.94	301	7.703	60	61.88	45	37.748	13	57.61	272
Juli	9	35.52	19	66.71	280	20.956	$\overline{8}$	67.93	312	7.763	96	61.43	50	37.735	$\overline{29}$	54.89	282
	19	35.71	32	63.91	282	20.964	65	64.81	316	7.859	130	60.93	57	37.764	72	52.07	283
	29	36.03	43	61.09	278	21.029	120	61.65	309	7.989	163	60.36	63	37.836	114	49.24	276
Aug.	8	36.46	54	58.31	267	21.149	175	58.56	292	8.152	194	59.73	69	37.950	154	46.48	260
	18	37.00	64	55.64	251	21.324	227	55.64	266	8.346	221	59.04	75	38.104	194	43.88	235
	28	37.64	73	53.13	230	21.551	275	52.98	228	8.567	249	58.29	81	38.298	231	41.53	199
Sept.	7	38.37	81	50.83	203	21.826	320	50.70	183	8.816	273	57.48	87	38.529	264	39.54	157
	17	39.18	88	48.80	174	22.146	358	48.87	130	9.089	295	56.61	93	38.793	295	37.97	107
	27	40.06	94	47.06	138	22.504	388	47.57	70	9.384	314	55.68	97	39.088	319	36.90	52
Okt.	7	41.00	97	45.68	100	22.892	410	46.87	7	9.698	331	54.71	99	39.407	339	36.38	$\overline{6}$
	17	41.97	100	44.68	59	23.302	421	46.80	$\overline{57}$	10.029	344	53.72	99	39.746	351	36.44	65
	27	42.97	100	44.09	13	23.723	421	47.37	121	10.373	351	52.73	95	40.097	355	37.09	124
Nov.	6	43.97	98	43.96	$\overline{33}$	24.144	408	48.58	182	10.724	352	51.78	88	40.452	349	38.33	179
	16	44.95	95	44.29	80	24.552	383	50.40	236	11.076	344	50.90	78	40.801	334	40.12	228
	26	45.90	88	45.09	126	24.935	346	52.76	282	11.420	328	50.12	62	41.135	307	42.40	269
Dez.	6	46.78	78	46.35	170	25.281	297	55.58	320	11.748	302	49.50	45	41.442	272	45.09	301
	16	47.56	68	48.05	210	25.578	237	58.78	345	12.050	268	49.05	25	41.714	227	48.10	323
	26	48.24	53	50.15	243	25.815	169	62.23	359	12.318	224	48.80	3	41.941	175	51.33	333
	36	48.77		52.58		25.984		65.82		12.542		48.77		42.116		54.66	
Mittl. Ort		39.15		65.14		22.774		62.25		8.570		60.46		38.987		49.90	
sec δ, tg δ		3.643		+3.503		1.655		−1.319		1.132		+0.531		1.303		−0.835	
a, *a′*		+7.2		−9.5		+1.5		−9.7		+3.7		−10.0		+2.1		−10.1	
b, *b′*		−0.11		−0.88		+0.04		−0.88		−0.02		− 0.87		+0.03		− 0.86	

*) Bei Stern 305) und 306) lies Jan. 21.

Obere Kulmination Greenwich

Tag	307) 27 Lyncis AR.		307) Dekl.		308) ρ Puppis AR.		308) Dekl.		309) γ Velorum AR.		309) Dekl.		311) 20 Puppis AR.		311) Dekl.	
1945	8h 4m		+51° 39′		8h 5m		−24° 8′		8h 7m		−47° 10′		8h 10m		−15° 37′	
	s		″		s		″		s		″		s		″	
Jan. 1	20.178	253	55.24	148	12.672	148	38.19	280	51.599	143	19.95	353	48.686	158	15.42	243
11	20.431	180	56.72	170	12.820	95	40.99	270	51.742	77	23.48	350	48.844	108	17.85	231
21	$_{22}$20.611	101	58.42	186	$_{22}$12.915	43	43.69	253	$_{23}$51.819	9	26.98	338	$_{23}$48.952	57	20.16	214
30	20.712	22	60.28	194	12.958	$\overline{10}$	46.22	231	51.828	$\overline{57}$	30.36	317	49.009	6	22.30	192
Febr. 9	20.734	$\overline{54}$	62.22	193	12.948	60	48.53	203	51.771	118	33.53	287	49.015	$\overline{42}$	24.22	165
19	20.680	122	64.15	185	12.888	104	50.56	171	51.653	172	36.40	252	48.973	85	25.87	137
März 1	20.558	182	66.00	167	12.784	140	52.27	137	51.481	218	38.92	213	48.888	121	27.24	108
11	20.376	226	67.67	143	12.644	167	53.64	102	51.263	253	41.05	168	48.767	148	28.32	76
21	20.150	256	69.10	114	12.477	186	54.66	65	51.010	276	42.73	121	48.619	167	29.08	46
31	19.894	273	70.24	80	12.291	194	55.31	28	50.734	290	43.94	73	48.452	176	29.54	15
Apr. 10	19.621	273	71.04	45	12.097	193	55.59	$\overline{8}$	50.444	291	44.67	24	48.276	175	29.69	$\overline{14}$
20	19.348	259	71.49	9	11.904	184	55.51	44	50.153	284	44.91	$\overline{25}$	48.101	167	29.55	44
30	19.089	233	71.58	$\overline{27}$	11.720	168	55.07	78	49.869	266	44.66	73	47.934	152	29.11	71
Mai 10	18.856	198	71.31	60	11.552	146	54.29	111	49.603	241	43.93	119	47.782	131	28.40	97
20	18.658	154	70.71	91	11.406	119	53.18	141	49.362	210	42.74	162	47.651	105	27.43	120
30	18.504	105	69.80	117	11.287	88	51.77	167	49.152	174	41.12	201	47.546	76	26.23	142
Juni 9	18.399	52	68.63	140	11.199	56	50.10	190	48.978	132	39.11	236	47.470	45	24.81	160
19	18.347	$\overline{3}$	67.23	159	11.143	21	48.20	208	48.846	88	36.75	263	47.425	12	23.21	174
29	18.350	57	65.64	173	11.122	$\overline{13}$	46.12	220	48.758	42	34.12	284	47.413	$\overline{20}$	21.47	183
Juli 9	18.407	110	63.91	183	11.135	49	43.92	226	48.716	$\overline{6}$	31.28	297	47.433	52	19.64	187
19	18.517	162	62.08	190	11.184	82	41.66	226	48.722	55	28.31	302	47.485	84	17.77	185
29	18.679	210	60.18	192	11.266	116	39.40	217	48.777	104	25.29	296	47.569	115	15.92	177
Aug. 8	18.889	256	58.26	191	11.382	149	37.23	202	48.881	151	22.33	281	47.684	145	14.15	162
18	19.145	298	56.35	186	11.531	179	35.21	178	49.032	198	19.52	257	47.829	174	12.53	141
28	19.443	337	54.49	179	11.710	209	33.43	147	49.230	241	16.95	222	48.003	201	11.12	113
Sept. 7	19.780	373	52.70	168	11.919	236	31.96	110	49.471	282	14.73	180	48.204	227	9.99	80
17	20.153	405	51.02	155	12.155	261	30.86	67	49.753	317	12.93	128	48.431	251	9.19	42
27	20.558	432	49.47	138	12.416	282	30.19	20	50.070	347	11.65	72	48.682	272	8.77	1
Okt. 7	20.990	455	48.09	117	12.698	300	29.99	$\overline{29}$	50.417	370	10.93	11	48.954	289	8.76	$\overline{43}$
17	21.445	471	46.92	93	12.998	312	30.28	79	50.787	384	10.82	$\overline{51}$	49.243	302	9.19	85
27	21.916	480	45.99	67	13.310	318	31.07	128	51.171	389	11.33	114	49.545	310	10.04	126
Nov. 6	22.396	479	45.32	36	13.628	316	32.35	171	51.560	382	12.47	173	49.855	310	11.30	164
16	22.875	468	44.96	3	13.944	306	34.06	210	51.942	364	14.20	226	50.165	303	12.94	196
26	23.343	445	44.93	$\overline{31}$	14.250	288	36.16	242	52.306	335	16.46	272	50.468	287	14.90	221
Dez. 6	23.788	409	45.24	66	14.538	260	38.58	264	52.641	294	19.18	308	50.755	262	17.11	237
16	24.197	361	45.90	99	14.798	223	41.22	277	52.935	244	22.26	335	51.017	229	19.48	247
26	24.558	301	46.89	130	15.021	181	43.99	283	53.179	185	25.61	349	51.246	189	21.95	247
36	24.859		48.19		15.202		46.82		53.364		29.10		51.435		24.42	
Mittl. Ort	19.720		61.70		12.048		40.34		50.207		25.14		48.229		16.73	
sec δ, tg δ	1.612		+1.265		1.096		−0.448		1.471		−1.079		1.038		−0.280	
a, *a′*	+4.5		−10.3		+2.6		−10.4		+1.9		−10.6		+2.8		−10.8	
b, *b′*	−0.04		−0.86		+0.02		−0.85		+0.04		−0.85		+0.01		−0.84	

Tag	310) Br 1147 Caml AR.		310) Dekl.		312) β Cancri AR.		312) Dekl.		314) 31 Lyncis AR.		314) Dekl.		315) ε Carinae AR.		315) Dekl.	
1945	$8^h\ 12^m$		$+75°\ 55'$		$8^h\ 13^m$		$+9°\ 21'$		$8^h\ 19^m$		$+43°\ 21'$		$8^h\ 21^m$		$-59°\ 19'$	
	s		″		s		″		s		″		s		″	
Jan. 1	43.39	55	33.16	255	32.211	179	21.06	108	4.882	245	52.18	93	25.431	171	47.05	369
11	43.94	37	35.71	279	32.390	131	19.98	90	5.127	181	53.11	117	25.602	85	50.74	373
21	[24] 44.31	18	38.50	292	[24] 32.521	79	19.08	70	[25] 5.308	113	54.28	137	[26] 25.687	—2	54.47	366
30	44.49	—1	41.42	294	32.600	28	18.38	51	5.421	45	55.65	151	25.685	87	58.13	349
Febr. 9	44.48	19	44.36	285	32.628	—21	17.87	31	5.466	—21	57.16	157	25.598	166	61.62	325
19	44.29	36	47.21	265	32.607	66	17.56	14	5.445	83	58.73	156	25.432	236	64.87	292
März 1	43.93	50	49.86	233	32.541	103	17.42	—1	5.362	135	60.29	148	25.196	296	67.79	252
11	43.43	63	52.19	193	32.438	131	17.43	14	5.227	175	61.77	132	24.900	344	70.31	209
21	42.80	71	54.12	147	32.307	150	17.57	25	5.052	205	63.09	112	24.556	379	72.40	162
31	42.09	76	55.59	95	32.157	160	17.82	33	4.847	221	64.21	87	24.177	400	74.02	111
Apr. 10	41.33	77	56.54	42	31.997	160	18.15	39	4.626	224	65.08	59	23.777	409	75.13	59
20	40.56	76	56.96	—12	31.837	152	18.54	45	4.402	215	65.67	31	23.368	406	75.72	7
30	39.80	71	56.84	65	31.685	135	18.99	50	4.187	195	65.98	1	22.962	390	75.79	—45
Mai 10	39.09	64	56.19	115	31.550	113	19.49	53	3.992	167	65.99	—26	22.572	364	75.34	96
20	38.45	53	55.04	159	31.437	87	20.02	56	3.825	133	65.73	53	22.208	330	74.38	145
30	37.92	42	53.45	198	31.350	57	20.58	58	3.692	93	65.20	76	21.878	287	72.93	189
Juni 9	37.50	29	51.47	232	31.293	26	21.16	59	3.599	49	64.44	98	21.591	237	71.04	229
19	37.21	16	49.15	258	31.267	—7	21.75	60	3.550	5	63.46	115	21.354	183	68.75	263
29	37.05	1	46.57	277	31.274	39	22.35	58	3.545	—40	62.31	130	21.171	122	66.12	291
Juli 9	37.04	—13	43.80	289	31.313	70	22.93	55	3.585	84	61.01	141	21.049	58	63.21	309
19	37.17	26	40.91	294	31.383	100	23.48	49	3.669	126	59.60	150	20.991	—8	60.12	318
29	37.43	41	37.97	294	31.483	130	23.97	40	3.795	168	58.10	157	20.999	75	56.94	318
Aug. 8	37.84	53	35.03	287	31.613	157	24.37	29	3.963	206	56.53	160	21.074	143	53.76	308
18	38.37	65	32.16	273	31.770	184	24.66	15	4.169	243	54.93	162	21.217	209	50.68	287
28	39.02	76	29.43	255	31.954	209	24.81	—2	4.412	277	53.31	161	21.426	273	47.81	256
Sept. 7	39.78	86	26.88	231	32.163	232	24.79	22	4.689	308	51.70	157	21.699	331	45.25	214
17	40.64	94	24.57	201	32.395	255	24.57	42	4.997	339	50.13	152	22.030	384	43.11	165
27	41.58	101	22.56	168	32.650	275	24.15	64	5.336	365	48.61	143	22.414	427	41.46	107
Okt. 7	42.59	107	20.88	129	32.925	293	23.51	85	5.701	387	47.18	131	22.841	461	40.39	45
17	43.66	111	19.59	87	33.218	306	22.66	105	6.088	406	45.87	116	23.302	482	39.94	—20
27	44.77	112	18.72	41	33.524	315	21.61	121	6.494	417	44.71	96	23.784	489	40.14	86
Nov. 6	45.89	111	18.31	—7	33.839	318	20.40	134	6.911	421	43.75	74	24.273	481	41.00	151
16	47.00	108	18.38	57	34.157	313	19.06	141	7.332	416	43.01	47	24.754	458	42.51	210
26	48.08	102	18.95	106	34.470	300	17.65	144	7.748	399	42.54	19	25.212	419	44.61	263
Dez. 6	49.10	92	20.01	153	34.770	278	16.21	140	8.147	372	42.35	—13	25.631	365	47.24	306
16	50.02	81	21.54	197	35.048	248	14.81	133	8.519	334	42.48	44	25.996	299	50.30	339
26	50.83	65	23.51	235	35.296	210	13.48	119	8.853	283	42.92	73	26.295	223	53.69	362
36	51.48		25.86		35.506		12.29		9.136		43.65		26.518		57.31	
Mittl. Ort	41.15		40.87		32.005		23.22		4.616		58.43		23.201		54.85	
sec δ, tg δ	4.113		+3.989		1.013		+0.165		1.376		+0.945		1.961		—1.686	
a, *a′*	+7.5		—11.0		+3.3		—11.0		+4.1		—11.4		+1.2		—11.6	
b, *b′*	—0.15		— 0.84		—0.01		— 0.84		—0.04		— 0.82		+0.07		— 0.82	

Tag	318) ϑ Chamael. AR.		318) Dekl.		316) Br 1197 Hydra AR.		316) Dekl.		317) o Ursae maj. AR.		317) Dekl.		320) Grb 1450 Lynx AR.		320) Dekl.	
1945	$8^h\ 22^m$		$-77°\ 18'$		$8^h\ 22^m$		$-3°\ 43'$		$8^h\ 25^m$		$+60°\ 53'$		$8^h\ 29^m$		$+38°\ 12'$	
	s		"		s		"		s		"		s		"	
Jan. 1	26.57	23	18.45	365	55.010	176	32.66	186	43.35	34	66.88	181	20.970	241	17.81	56
11	26.80	5	22.10	374	55.186	129	34.52	170	43.69	25	68.69	209	21.211	183	18.37	83
21	26.85	$\overline{15}$	25.84	372	[26] 55.315	79	36.22	152	[27] 43.94	15	70.78	228	21.394	120	19.20	104
30	[26] 26.70	32	29.56	360	55.394	28	37.74	130	44.09	6	73.06	238	[28] 21.514	57	20.24	121
Febr. 9	26.38	50	33.16	339	55.422	$\overline{19}$	39.04	108	44.15	$\overline{4}$	75.44	238	21.571	$\overline{6}$	21.45	132
19	25.88	64	36.55	310	55.403	63	40.12	83	44.11	14	77.82	229	21.565	63	22.77	135
März 1	25.24	78	39.65	274	55.340	100	40.95	60	43.97	21	80.11	209	21.502	113	24.12	132
11	24.46	89	42.39	233	55.240	129	41.55	37	43.76	27	82.20	182	21.389	152	25.44	122
21	23.57	96	44.72	187	55.111	149	41.92	15	43.49	32	84.02	147	21.237	181	26.66	108
31	22.61	102	46.59	138	54.962	159	42.07	$\overline{6}$	43.17	35	85.49	108	21.056	198	27.74	88
Apr. 10	21.59	104	47.97	86	54.803	160	42.01	25	42.82	36	86.57	65	20.858	202	28.62	66
20	20.55	105	48.83	33	54.643	154	41.76	43	42.46	35	87.22	22	20.656	196	29.28	43
30	19.50	103	49.16	$\overline{20}$	54.489	140	41.33	59	42.11	32	87.44	$\overline{23}$	20.460	179	29.71	17
Mai 10	18.47	98	48.96	74	54.349	120	40.74	76	41.79	29	87.21	65	20.281	155	29.88	$\overline{7}$
20	17.49	91	48.22	124	54.229	96	39.98	89	41.50	24	86.56	104	20.126	125	29.81	30
30	16.58	82	46.98	172	54.133	69	39.09	102	41.26	19	85.52	139	20.001	89	29.51	51
Juni 9	15.76	72	45.26	216	54.064	40	38.07	112	41.07	12	84.13	169	19.912	51	29.00	71
19	15.04	59	43.10	253	54.024	9	36.95	119	40.95	5	82.44	195	19.861	11	28.29	87
29	14.45	45	40.57	285	54.015	$\overline{21}$	35.76	124	40.90	$\overline{1}$	80.49	214	19.850	$\overline{29}$	27.42	102
Juli 9	14.00	29	37.72	307	54.036	52	34.52	124	40.91	8	78.35	230	19.879	69	26.40	114
19	13.71	13	34.65	322	54.088	82	33.28	120	40.99	14	76.05	240	19.948	108	25.26	125
29	13.58	$\overline{3}$	31.43	326	54.170	111	32.08	112	41.13	21	73.65	244	20.056	145	24.01	132
Aug. 8	13.61	21	28.17	319	54.281	139	30.96	99	41.34	27	71.21	244	20.201	181	22.69	139
18	13.82	37	24.98	302	54.420	167	29.97	81	41.61	33	68.77	239	20.382	215	21.30	144
28	14.19	53	21.96	274	54.587	193	29.16	59	41.94	39	66.38	231	20.597	247	19.86	147
Sept. 7	14.72	67	19.22	236	54.780	218	28.57	32	42.33	43	64.07	216	20.844	278	18.39	148
17	15.39	80	16.86	189	54.998	242	28.25	1	42.76	48	61.91	198	21.122	307	16.91	147
27	16.19	91	14.97	134	55.240	263	28.24	30	43.24	52	59.93	177	21.429	333	15.44	144
Okt. 7	17.10	97	13.63	72	55.503	282	28.54	64	43.76	55	58.16	149	21.762	356	14.00	137
17	18.07	101	12.91	6	55.785	297	29.18	96	44.31	57	56.67	119	22.118	376	12.63	127
27	19.08	102	12.85	$\overline{60}$	56.082	307	30.14	126	44.88	59	55.48	83	22.494	388	11.36	114
Nov. 6	20.10	99	13.45	126	56.389	311	31.40	153	45.47	60	54.65	45	22.882	395	10.22	96
16	21.09	92	14.71	187	56.700	307	32.93	174	46.07	59	54.20	5	23.277	392	9.26	74
26	22.01	82	16.58	243	57.007	294	34.67	189	46.66	56	54.15	$\overline{38}$	23.669	380	8.52	49
Dez. 6	22.83	68	19.01	291	57.301	274	36.56	196	47.22	53	54.53	81	24.049	356	8.03	21
16	23.51	53	21.92	328	57.575	244	38.52	198	47.75	47	55.34	122	24.405	322	7.82	$\overline{8}$
26	24.04	34	25.20	355	57.819	206	40.50	193	48.22	39	56.56	159	24.727	278	7.90	38
36	24.38		28.75		58.025		42.43		48.61		58.15		25.005		8.28	
Mittl. Ort	19.86		27.80		54.731		32.72		42.68		74.66		20.787		23.73	
sec δ, tg δ	4.551		−4.440		1.002		−0.065		2.057		+1.797		1.273		+0.787	
a, a′	−1.8		−11.7		+3.0		−11.7		+5.0		−11.9		+3.9		−12.2	
b, b′	+0.17		−0.81		0.00		−0.81		−0.07		−0.80		−0.03		−0.80	

Scheinbare Sternörter 1945

Tag	321) η Cancri AR.		321) η Cancri Dekl.		1227) o Velorum AR.		1227) o Velorum Dekl.		327) α Pyxidis AR.		327) α Pyxidis Dekl.		326) δ Cancri AR.		326) δ Cancri Dekl.	
1945	$8^h\ 29^m$		$+20°\ 37'$		$8^h\ 38^m$		$-52°\ 43'$		$8^h\ 41^m$		$-32°\ 59'$		$8^h\ 41^m$		$+18°\ 21'$	
	s		"		s		"		s		"		s		"	
Jan. 1	31.938	207	42.17	48	44.625	193	24.34	359	23.561	185	7.67	315	33.794	215	24.77	68
11	32.145	158	41.69	25	44.818	121	27.93	366	23.746	131	10.82	313	34.009	167	24.09	44
21	28 32.303	104	41.44	4	30 44.939	47	31.59	360	23.877	75	13.95	302	34.176	115	23.65	22
30*)	32.407	50	41.40	$\overline{16}$	44.986	$\overline{27}$	35.19	346	31 23.952	18	16.97	284	31 34.291	61	23.43	1
Febr. 9	32.457	$\overline{3}$	41.56	33	44.959	97	38.65	323	23.970	$\overline{36}$	19.81	259	34.352	$\overline{9}$	23.42	$\overline{18}$
19	32.454	52	41.89	45	44.862	160	41.88	292	23.934	85	22.40	229	34.361	40	23.60	33
März 1	32.402	93	42.34	55	44.702	214	44.80	255	23.849	128	24.69	195	34.321	82	23.93	45
11	32.309	126	42.89	59	44.488	259	47.35	214	23.721	162	26.64	158	34.239	115	24.38	53
21	32.183	148	43.48	60	44.229	291	49.49	169	23.559	186	28.22	118	34.124	140	24.91	56
31	32.035	162	44.08	59	43.938	312	51.18	122	23.373	202	29.40	77	33.984	155	25.47	57
Apr. 10	31.873	165	44.67	54	43.626	323	52.40	71	23.171	208	30.17	36	33.829	159	26.04	55
20	31.708	159	45.21	47	43.303	323	53.11	21	22.963	207	30.53	$\overline{5}$	33.670	156	26.59	51
30	31.549	144	45.68	40	42.980	313	53.32	$\overline{30}$	22.756	196	30.48	46	33.514	143	27.10	45
Mai 10	31.405	124	46.08	32	42.667	293	53.02	79	22.560	179	30.02	84	33.371	125	27.55	40
20	31.281	98	46.40	25	42.374	268	52.23	126	22.381	158	29.18	122	33.246	101	27.95	33
30	31.183	68	46.65	16	42.106	234	50.97	170	22.223	132	27.96	156	33.145	74	28.28	26
Juni 9	31.115	37	46.81	9	41.872	195	49.27	209	22.091	102	26.40	185	33.071	45	28.54	19
19	31.078	4	46.90	2	41.677	151	47.18	244	21.989	70	24.55	211	33.026	14	28.73	13
29	31.074	$\overline{29}$	46.92	$\overline{6}$	41.526	103	44.74	272	21.919	36	22.44	230	33.012	$\overline{18}$	28.86	5
Juli 9	31.103	62	46.86	14	41.423	53	42.02	291	21.883	0	20.14	243	33.030	49	28.91	$\overline{3}$
19	31.165	93	46.72	21	41.370	0	39.11	303	21.883	36	17.71	249	33.079	80	28.88	12
29	31.258	125	46.51	31	41.370	56	36.08	305	21.919	73	15.22	247	33.159	110	28.76	22
Aug. 8	31.383	153	46.20	41	41.426	110	33.03	297	21.992	109	12.75	236	33.269	139	28.54	32
18	31.536	182	45.79	52	41.536	166	30.06	279	22.101	147	10.39	217	33.408	168	28.22	45
28	31.718	209	45.27	64	41.702	220	27.27	250	22.248	182	8.22	189	33.576	195	27.77	59
Sept. 7	31.927	235	44.63	77	41.922	271	24.77	212	22.430	217	6.33	153	33.771	222	27.18	73
17	32.162	260	43.86	89	42.193	318	22.65	166	22.647	250	4.80	110	33.993	248	26.45	87
27	32.422	283	42.97	101	42.511	358	20.99	111	22.897	280	3.70	61	34.241	273	25.58	102
Okt. 7	32.705	304	41.96	112	42.869	392	19.88	51	23.177	305	3.09	9	34.514	294	24.56	116
17	33.009	320	40.84	119	43.261	416	19.37	$\overline{13}$	23.482	325	3.00	$\overline{46}$	34.808	313	23.40	126
27	33.329	333	39.65	125	43.677	429	19.50	76	23.807	338	3.46	101	35.121	327	22.14	133
Nov. 6	33.662	338	38.40	125	44.106	429	20.26	139	24.145	342	4.47	153	35.448	335	20.81	137
16	34.000	337	37.15	122	44.535	416	21.65	199	24.487	338	6.00	201	35.783	335	19.44	135
26	34.337	325	35.93	112	44.951	390	23.64	250	24.825	322	8.01	241	36.118	327	18.09	129
Dez. 6	34.662	307	34.81	100	45.341	350	26.14	294	25.147	297	10.42	275	36.445	309	16.80	117
16	34.969	277	33.81	82	45.691	298	29.08	329	25.444	262	13.17	298	36.754	282	15.63	101
26	35.246	239	32.99	62	45.989	237	32.37	351	25.706	218	16.15	312	37.036	245	14.62	81
36	35.485		32.37		46.226		35.88		25.924		19.27		37.281		13.81	
Mittl. Ort	31.807		45.77		43.038		33.04		22.838		13.65		33.695		27.95	
sec δ, tg δ	1.069		+0.376		1.651		−1.314		1.192		−0.649		1.054		+0.332	
a, a'	+3.5		−12.2		+1.7		−12.8		+2.4		−13.0		+3.4		−13.0	
b, b'	−0.02		−0.79		+0.06		−0.77		+0.03		−0.76		−0.01		−0.76	

*) Bei Stern 327) und 326) lies Jan. 31.

Tag	328) ι Cancri AR.		328) ι Cancri Dekl.		334) ζ Hydrae AR.		334) ζ Hydrae Dekl.		336) 108 G. Carinae AR.		336) 108 G. Carinae Dekl.		335) ι Ursae maj. AR.		335) ι Ursae maj. Dekl.	
1945	8h 43m		+28° 57′		8h 52m		+6° 9′		8h 53m		−60° 25′		8h 55m		+48° 15′	
	s		″		s		″		s		″		s		″	
Jan. 1	22.457	234	40.18	6	29.346	210	20.87	140	50.28	24	50.95	363	27.277	305	24.85	94
11	22.691	183	40.12	21	29.556	165	19.47	121	50.52	15	54.58	375	27.582	241	25.79	127
21	22.874	127	40.33	45	29.721	116	18.26	101	50.67	6	58.33	375	27.823	170	27.06	154
31	1 23.001	69	40.78	65	3 29.837	65	17.25	78	3 50.73	3	62.08	366	4 27.993	97	28.60	173
Febr. 9	23.070	12	41.43	80	29.902	15	16.47	57	50.70	11	65.74	348	28.090	23	30.33	186
19	23.082	40	42.23	92	29.917	32	15.90	35	50.59	18	69.22	320	28.113	46	32.19	189
März 1	23.042	87	43.15	97	29.885	72	15.55	16	50.41	25	72.42	287	28.067	108	34.08	184
11	22.955	124	44.12	96	29.813	105	15.39	2	50.16	32	75.29	248	27.959	160	35.92	171
21	22.831	151	45.08	91	29.708	129	15.41	15	49.84	35	77.77	203	27.799	199	37.63	150
31	22.680	168	45.99	81	29.579	143	15.56	28	49.49	38	79.80	156	27.600	226	39.13	124
Apr. 10	22.512	175	46.80	69	29.436	150	15.84	38	49.11	40	81.36	105	27.374	238	40.37	94
20	22.337	170	47.49	54	29.286	148	16.22	46	48.71	41	82.41	54	27.136	239	41.31	61
30	22.167	158	48.03	38	29.138	139	16.68	54	48.30	41	82.95	1	26.897	228	41.92	26
Mai 10	22.009	139	48.41	21	28.999	123	17.22	58	47.89	38	82.96	51	26.669	206	42.18	8
20	21.870	113	48.62	6	28.876	102	17.80	63	47.51	36	82.45	101	26.463	177	42.10	42
30	21.757	84	48.68	11	28.774	78	18.43	66	47.15	33	81.44	150	26.286	140	41.68	73
Juni 9	21.673	52	48.57	25	28.696	53	19.09	69	46.82	28	79.94	193	26.146	100	40.95	102
19	21.621	18	48.32	39	28.643	24	19.78	68	46.54	23	78.01	232	26.046	57	39.93	127
29	21.603	17	47.93	51	28.619	4	20.46	67	46.31	19	75.69	265	25.989	11	38.66	149
Juli 9	21.620	51	47.42	63	28.623	33	21.13	64	46.12	12	73.04	290	25.978	34	37.17	168
19	21.671	85	46.79	74	28.656	61	21.77	58	46.00	5	70.14	307	26.012	80	35.49	183
29	21.756	117	46.05	84	28.717	90	22.35	48	45.95	2	67.07	314	26.092	124	33.66	195
Aug. 8	21.873	150	45.21	94	28.807	118	22.83	36	45.97	8	63.93	312	26.216	168	31.71	202
18	22.023	180	44.27	104	28.925	146	23.19	21	46.05	16	60.81	297	26.384	210	29.69	208
28	22.203	211	43.23	112	29.071	174	23.40	2	46.21	22	57.84	273	26.594	251	27.61	208
Sept. 7	22.414	239	42.11	120	29.245	200	23.42	19	46.43	29	55.11	239	26.845	290	25.53	207
17	22.653	267	40.91	128	29.445	227	23.23	42	46.72	36	52.72	194	27.135	328	23.46	201
27	22.920	293	39.63	133	29.672	252	22.81	67	47.08	41	50.78	142	27.463	363	21.45	192
Okt. 7	23.213	317	38.30	136	29.924	275	22.14	91	47.49	45	49.36	82	27.826	394	19.53	178
17	23.530	337	36.94	136	30.199	294	21.23	114	47.94	49	48.54	19	28.220	421	17.75	160
27	23.867	352	35.58	132	30.493	310	20.09	134	48.43	50	48.35	48	28.641	441	16.15	137
Nov. 6	24.219	361	34.26	125	30.803	319	18.75	151	48.93	51	48.83	113	29.082	454	14.78	109
16	24.580	361	33.01	111	31.122	321	17.24	163	49.44	50	49.96	176	29.536	456	13.69	78
26	24.941	353	31.90	95	31.443	314	15.61	169	49.94	46	51.72	232	29.992	448	12.91	43
Dez. 6	25.294	334	30.95	73	31.757	298	13.92	169	50.40	42	54.04	282	30.440	426	12.48	6
16	25.628	305	30.22	49	32.055	273	12.23	163	50.82	36	56.86	322	30.866	391	12.42	33
26	25.933	267	29.73	23	32.328	239	10.60	151	51.18	29	60.08	352	31.257	345	12.75	71
36	26.200		29.50		32.567		9.09		51.47		63.60		31.602		13.46	
Mittl. Ort	22.364		45.04		29.231		21.70		48.15		62.03		27.083		32.50	
sec δ, tg δ	1.143		+0.553		1.006		+0.108		2.027		−1.763		1.502		+1.121	
a, *a′*	+3.6		−13.1		+3.2		−13.7		+1.4		−13.8		+4.2		−13.9	
b, *b′*	−0.02		−0.76		0.00		−0.73		+0.08		−0.73		−0.05		−0.72	

Tag	337) α Cancri AR.		337) α Cancri Dekl.		339) Br. 1268 Lynx AR.		339) Br. 1268 Lynx Dekl.		338) ρ Ursae maj. AR.		338) ρ Ursae maj. Dekl.		341) κ Ursae maj. AR.		341) κ Ursae maj. Dekl.	
1945	8h 55m		+12° 4′		8h 57m		+41° 59′		8h 57m		+67° 50′		8h 59m		+47° 22′	
	s		"		s		"		s		"		s		"	
Jan. 1	28.914	219	16.78	109	4.711	282	59.95	59	37.72	48	35.90	187	52.933	307	24.30	87
11	29.133	174	15.69	87	4.993	224	60.54	91	38.20	38	37.77	222	53.240	245	25.17	120
21	29.307	123	14.82	65	5.217	160	61.45	118	38.58	26	39.99	249	53.485	176	26.37	147
31	29.430	72	14.17	43	5.377	93	62.63	139	38.84	13	42.48	265	53.661	103	27.84	169
Febr. 9	4 29.502	21	13.74	21	4 5.470	27	64.02	153	4 38.97	1	45.13	271	5 53.764	31	29.53	182
19	29.523	27	13.53	2	5.497	36	65.55	160	38.98	11	47.84	265	53.795	38	31.35	187
März 1	29.496	69	13.51	15	5.461	92	67.15	159	38.87	21	50.49	249	53.757	99	33.22	182
11	29.427	102	13.66	28	5.369	138	68.74	151	38.66	31	52.98	223	53.658	151	35.04	171
21	29.325	128	13.94	37	5.231	173	70.25	136	38.35	38	55.21	189	53.507	190	36.75	153
31	29.197	144	14.31	45	5.058	197	71.61	115	37.97	43	57.10	148	53.317	217	38.28	127
Apr. 10	29.053	150	14.76	49	4.861	209	72.76	90	37.54	46	58.58	101	53.100	231	39.55	98
20	28.903	149	15.25	52	4.652	208	73.66	63	37.08	47	59.59	52	52.869	232	40.53	65
30	28.754	140	15.77	52	4.444	198	74.29	35	36.61	45	60.11	3	52.637	222	41.18	32
Mai 10	28.614	124	16.29	52	4.246	178	74.64	5	36.16	42	60.14	45	52.415	202	41.50	2
20	28.490	103	16.81	50	4.068	151	74.69	24	35.74	37	59.69	92	52.213	174	41.48	36
30	28.387	79	17.31	49	3.917	120	74.45	50	35.37	32	58.77	135	52.039	139	41.12	66
Juni 9	28.308	53	17.80	46	3.797	84	73.95	76	35.05	24	57.42	174	51.900	100	40.46	95
19	28.255	25	18.26	42	3.713	45	73.19	98	34.81	16	55.68	206	51.800	59	39.51	121
29	28.230	4	18.68	37	3.668	6	72.21	118	34.65	9	53.62	235	51.741	15	38.30	144
Juli 9	28.234	34	19.05	30	3.662	35	71.03	136	34.56	0	51.27	256	51.726	30	36.86	162
19	28.268	63	19.35	23	3.697	75	69.67	149	34.56	9	48.71	272	51.756	74	35.24	178
29	28.331	91	19.58	12	3.772	114	68.18	162	34.65	17	45.99	282	51.830	118	33.46	191
Aug. 8	28.422	120	19.70	1	3.886	153	66.56	171	34.82	25	43.17	287	51.948	161	31.55	199
18	28.542	148	19.71	14	4.039	190	64.85	179	35.07	33	40.30	285	52.109	202	29.56	205
28	28.690	176	19.57	30	4.229	226	63.06	183	35.40	40	37.45	278	52.311	242	27.51	208
Sept. 7	28.866	203	19.27	49	4.455	262	61.23	185	35.80	47	34.67	266	52.553	282	25.43	207
17	29.069	230	18.78	68	4.717	295	59.38	183	36.27	55	32.01	248	52.835	319	23.36	202
27	29.299	256	18.10	88	5.012	328	57.55	179	36.82	61	29.53	224	53.154	354	21.34	194
Okt. 7	29.555	279	17.22	107	5.340	357	55.76	171	37.43	65	27.29	196	53.508	386	19.40	181
17	29.834	299	16.15	125	5.697	381	54.05	159	38.08	70	25.33	162	53.894	413	17.59	164
27	30.133	316	14.90	139	6.078	401	52.46	142	38.78	73	23.71	122	54.307	434	15.95	143
Nov. 6	30.449	326	13.51	149	6.479	413	51.04	121	39.51	75	22.49	79	54.741	448	14.52	116
16	30.775	328	12.02	154	6.892	417	49.83	95	40.26	74	21.70	33	55.189	452	13.36	85
26	31.103	322	10.48	155	7.309	410	48.88	65	41.00	73	21.37	17	55.641	444	12.51	50
Dez. 6	31.425	307	8.93	149	7.719	390	48.23	32	41.73	69	21.54	66	56.085	424	12.01	14
16	31.732	282	7.44	137	8.109	360	47.91	2	42.42	63	22.20	115	56.509	391	11.87	25
26	32.014	248	6.07	122	8.469	317	47.93	37	43.05	55	23.35	160	56.900	346	12.12	63
36	32.262		4.85		8.786		48.30		43.60		24.95		57.246		12.75	
Mittl. Ort	28.839		18.69		4.598		66.85		36.87		45.29		52.771		31.95	
sec δ, tg δ	1.023		+0.214		1.346		+0.900		2.652		+2.456		1.477		+1.087	
a, a′	+3.3		−13.9		+3.9		−14.0		+5.4		−14.0		+4.1		−14.2	
b, b′	−0.01		−0.72		−0.04		−0.72		−0.11		−0.71		−0.05		−0.71	

Tag	343) α Volantis AR.		343) α Volantis Dekl.		345) λ Velorum AR.		345) λ Velorum Dekl.		347) ϑ Hydrae AR.		347) ϑ Hydrae Dekl.		348) β Carinae AR.		348) β Carinae Dekl.	
1945	$9^h\ 1^m$		−66° 10′		$9^h\ 5^m$		−43° 12′		$9^h\ 11^m$		+2° 32′		$9^h\ 12^m$		−69° 29′	
	s		″		s		″		s		″		s		″	
Jan. 1	37.85	28	21.73	362	59.193	220	25.13	338	30.285	224	50.86	166	39.66	33	11.52	356
11	38.13	18	25.35	377	59.413	162	28.51	345	30.509	180	49.20	149	39.99	21	15.08	374
21	38.31	7	29.12	381	59.575	99	31.96	341	30.689	132	47.71	129	40.20	10	18.82	383
31	38.38	3	32.93	376	59.674	35	35.37	330	30.821	82	46.42	106	40.30	2	22.65	380
Febr. 9	[5] 38.35	14	36.69	360	[6] 59.709	25	38.67	309	[8] 30.903	32	45.36	83	[8] 40.28	14	26.45	369
19	38.21	22	40.29	336	59.684	81	41.76	282	30.935	15	44.53	59	40.14	24	30.14	347
März 1	37.99	31	43.65	305	59.603	131	44.58	249	30.920	56	43.94	38	39.90	34	33.61	319
11	37.68	38	46.70	267	59.472	173	47.07	212	30.864	90	43.56	18	39.56	41	36.80	284
21	37.30	43	49.37	225	59.299	204	49.19	172	30.774	116	43.38	0	39.15	49	39.64	243
31	36.87	47	51.62	177	59.095	227	50.91	128	30.658	134	43.38	16	38.66	54	42.07	197
Apr. 10	36.40	50	53.39	127	58.868	240	52.19	83	30.524	142	43.54	29	38.12	57	44.04	148
20	35.90	51	54.66	75	58.628	243	53.02	37	30.382	144	43.83	41	37.55	59	45.52	96
30	35.39	51	55.41	22	58.385	239	53.39	9	30.238	137	44.24	51	36.96	59	46.48	43
Mai 10	34.88	50	55.63	31	58.146	227	53.30	55	30.101	125	44.75	60	36.37	59	46.91	11
20	34.38	46	55.32	84	57.919	209	52.75	98	29.976	108	45.35	67	35.78	56	46.80	64
30	33.92	43	54.48	134	57.710	185	51.77	139	29.868	87	46.02	73	35.22	52	46.16	116
Juni 9	33.49	39	53.14	181	57.525	157	50.38	177	29.781	64	46.75	77	34.70	48	45.00	164
19	33.10	32	51.33	222	57.368	124	48.61	210	29.717	39	47.52	79	34.22	41	43.36	208
29	32.78	26	49.11	258	57.244	89	46.51	237	29.678	12	48.31	80	33.81	34	41.28	247
Juli 9	32.52	19	46.53	286	57.155	50	44.14	257	29.666	15	49.11	78	33.47	25	38.81	278
19	32.33	11	43.67	307	57.105	11	41.57	270	29.681	42	49.89	72	33.22	17	36.03	302
29	32.22	2	40.60	317	57.094	33	38.87	275	29.723	70	50.61	63	33.05	7	33.01	315
Aug. 8	32.20	7	37.43	317	57.127	77	36.12	270	29.793	97	51.24	51	32.98	3	29.86	319
18	32.27	15	34.26	307	57.204	121	33.42	255	29.890	126	51.75	36	33.01	14	26.67	313
28	32.42	24	31.19	285	57.325	166	30.87	232	30.016	155	52.11	17	33.15	24	23.54	294
Sept. 7	32.66	33	28.34	253	57.491	210	28.55	198	30.171	183	52.28	7	33.39	34	20.60	266
17	32.99	41	25.81	212	57.701	252	26.57	157	30.354	211	52.21	31	33.73	44	17.94	226
27	33.40	47	23.69	160	57.953	291	25.00	108	30.565	238	51.90	58	34.17	51	15.68	177
Okt. 7	33.87	53	22.09	101	58.244	325	23.92	53	30.803	264	51.32	86	34.68	59	13.91	120
17	34.40	58	21.08	38	58.569	352	23.39	6	31.067	287	50.46	113	35.27	64	12.71	58
27	34.98	59	20.70	29	58.921	372	23.45	66	31.354	304	49.33	136	35.91	67	12.13	8
Nov. 6	35.57	60	20.99	95	59.293	380	24.11	125	31.658	317	47.97	158	36.58	69	12.21	75
16	36.17	59	21.94	159	59.673	379	25.36	180	31.975	322	46.39	174	37.27	67	12.96	140
26	36.76	55	23.53	219	60.052	365	27.16	231	32.297	318	44.65	184	37.94	63	14.36	202
Dez. 6	37.31	50	25.72	271	60.417	340	29.47	273	32.615	306	42.81	187	38.57	57	16.38	257
16	37.81	43	28.43	315	60.757	302	32.20	306	32.921	283	40.94	185	39.14	50	18.95	303
26	38.24	33	31.58	348	61.059	256	35.26	330	33.204	251	39.09	176	39.64	39	21.98	340
36	38.57		35.06		61.315		38.56		33.455		37.33		40.03		25.38	
Mittl. Ort	35.06		34.20		58.247		34.72		30.212		50.48		36.39		25.39	
sec δ, tg δ	2.476		−2.265		1.372		−0.939		1.001		+0.044		2.854		−2.673	
a, *a′*	+0.9		−14.3		+2.2		−14.5		+3.1		−14.9		+0.7		−14.9	
b, *b′*	+0.11		−0.76		+0.05		−0.69		0.00		−0.67		+0.13		−0.67	

Scheinbare Sternörter 1945

Tag	350) 83 Cancri				352) α Lyncis				353) κ Velorum				354) α Hydrae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$9^h\ 15^m$		+17° 56′		$9^h\ 17^m$		+34° 37′		$9^h\ 20^m$		−54° 46′		$9^h\ 24^m$		−8° 25′	
	s		″		s		″		s		″		s		″	
Jan. 1	54.797	244	19.66	85	42.577	280	28.64	5	25.992	264	17.63	351	53.171	229	6.18	220
11	55.041	199	18.81	61	42.857	229	28.69	38	26.256	193	21.14	365	53.400	185	8.38	210
21	55.240	149	18.20	35	43.086	172	29.07	67	26.449	118	24.79	369	53.585	138	10.48	194
31	55.389	97	17.85	11	43.258	112	29.74	92	26.567	42	28.48	363	53.723	88	12.42	174
Febr. 9*)	9 55.486	44	17.74	12	9 43.370	52	30.66	112	26.609	32	32.11	349	53.811	38	14.16	150
19	55.530	7	17.86	31	43.422	6	31.78	126	10 26.577	102	35.60	326	11 53.849	8	15.66	125
März 1	55.523	51	18.17	46	43.416	59	33.04	133	26.475	164	38.86	295	53.841	50	16.91	99
11	55.472	88	18.63	56	43.357	102	34.37	132	26.311	216	41.81	260	53.791	85	17.90	74
21	55.384	117	19.19	64	43.255	137	35.69	126	26.095	258	44.41	219	53.706	112	18.64	48
31	55.267	137	19.83	66	43.118	162	36.95	114	25.837	290	46.60	175	53.594	131	19.12	24
Apr. 10	55.130	148	20.49	65	42.956	175	38.09	98	25.547	311	48.35	127	53.463	142	19.36	1
20	54.982	149	21.14	63	42.781	178	39.07	78	25.236	322	49.62	77	53.321	145	19.37	20
30	54.833	143	21.77	57	42.603	173	39.85	56	24.914	322	50.39	28	53.176	141	19.17	41
Mai 10	54.690	131	22.34	49	42.430	159	40.41	33	24.592	315	50.67	23	53.035	132	18.76	60
20	54.559	113	22.83	42	42.271	138	40.74	9	24.277	298	50.44	73	52.903	118	18.16	77
30	54.446	91	23.25	34	42.133	114	40.83	15	23.979	274	49.71	120	52.785	99	17.39	92
Juni 9	54.355	66	23.59	25	42.019	84	40.68	36	23.705	243	48.51	164	52.686	79	16.47	105
19	54.289	39	23.84	16	41.935	53	40.32	57	23.462	207	46.87	204	52.607	55	15.42	117
29	54.250	12	24.00	6	41.882	20	39.75	76	23.255	165	44.83	239	52.552	31	14.25	123
Juli 9	54.238	17	24.06	4	41.862	14	38.99	93	23.090	118	42.44	266	52.521	5	13.02	127
19	54.255	46	24.02	15	41.876	49	38.06	110	22.972	67	39.78	286	52.516	22	11.75	127
29	54.301	74	23.87	28	41.925	82	36.96	125	22.905	12	36.92	297	52.538	50	10.48	122
Aug. 8	54.375	104	23.59	40	42.007	117	35.71	137	22.893	45	33.95	298	52.588	78	9.26	112
18	54.479	133	23.19	54	42.124	150	34.34	149	22.938	105	30.97	289	52.666	108	8.14	96
28	54.612	162	22.65	70	42.274	185	32.85	159	23.043	165	28.08	269	52.774	137	7.18	75
Sept. 7	54.774	192	21.95	86	42.459	217	31.26	166	23.208	224	25.39	240	52.911	167	6.43	49
17	54.966	220	21.09	102	42.676	251	29.60	173	23.432	281	22.99	200	53.078	198	5.94	20
27	55.186	249	20.07	118	42.927	282	27.87	175	23.713	333	20.99	151	53.276	228	5.74	14
Okt. 7	55.435	275	18.89	132	43.209	313	26.12	176	24.046	379	19.48	96	53.504	255	5.88	49
17	55.710	300	17.57	145	43.522	339	24.36	172	24.425	416	18.52	35	53.759	280	6.37	86
27	56.010	319	16.12	153	43.861	362	22.64	163	24.841	442	18.17	28	54.039	300	7.23	120
Nov. 6	56.329	333	14.59	157	44.223	377	21.01	150	25.283	455	18.45	92	54.339	315	8.43	152
16	56.662	340	13.02	157	44.600	384	19.51	131	25.738	454	19.37	155	54.654	321	9.95	181
26	57.002	337	11.45	151	44.984	383	18.20	108	26.192	438	20.92	212	54.975	319	11.76	202
Dez. 6	57.339	326	9.94	139	45.367	370	17.12	81	26.630	407	23.04	263	55.294	307	13.78	217
16	57.665	304	8.55	123	45.737	346	16.31	50	27.037	363	25.67	304	55.601	285	15.95	225
26	57.969	271	7.32	102	46.083	310	15.81	17	27.400	306	28.71	337	55.886	255	18.20	225
36	58.240		6.30		46.393		15.64		27.706		32.08		56.141		20.45	
Mittl. Ort	54.813		22.52		42.593		34.70		24.543		30.31		53.054		9.52	
sec δ, tg δ	1.051		+0.324		1.215		+0.691		1.734		−1.416		1.011		−0.148	
a, *a′*	+3.4		−15.1		+3.7		−15.2		+1.9		−15.4		+2.9		−15.6	
b, *b′*	−0.02		− 0.66		−0.03		− 0.65		+0.07		− 0.64		+0.01		−0.63	

*) Bei Stern 353) und 354) lies Febr. 10.

Tag	356) ε Antliae AR.		356) ε Antliae Dekl.		355) 23 Ursae maj. AR.		355) 23 Ursae maj. Dekl.		358) ϑ Ursae maj. AR.		358) ϑ Ursae maj. Dekl.		357) 24 Ursae maj. AR.		357) 24 Ursae maj. Dekl.	
1945	$9^h\ 26^m$		$-35°42'$		$9^h\ 27^m$		$+63°17'$		$9^h\ 29^m$		$+51°55'$		$9^h\ 29^m$		$+70°\ 3'$	
	s		"		s		"		s		"		s		"	
Jan. 1	58.951	236	26.50	316	13.27	47	63.72	139	11.501	362	36.24	84	40.00	59	74.89	165
11	59.187	186	29.66	323	13.74	38	65.11	181	11.863	300	37.08	123	40.59	49	76.54	207
21	59.373	130	32.89	319	14.12	29	66.92	215	12.163	228	38.31	157	41.08	36	78.61	241
31	59.503	72	36.08	307	14.41	19	69.07	239	12.391	151	39.88	184	41.44	23	81.02	266
Febr. 10	59.575	16	39.15	289	14.60	8	71.46	255	12.542	73	41.72	203	41.67	9	83.68	279
19	12 59.591	37	42.04	264	12 14.68	2	74.01	258	12 12.615	4	43.75	211	12 41.76	4	86.47	282
März 1	59.554	85	44.68	234	14.66	12	76.59	252	12.611	74	45.86	211	41.72	16	89.29	272
11	59.469	124	47.02	200	14.54	20	79.11	235	12.537	135	47.97	202	41.56	28	92.01	251
21	59.345	156	49.02	162	14.34	27	81.46	208	12.402	185	49.99	184	41.28	36	94.52	221
31	59.189	179	50.64	124	14.07	32	83.54	175	12.217	222	51.83	158	40.92	44	96.73	183
Apr. 10	59.010	194	51.88	83	13.75	35	85.29	134	11.995	245	53.41	128	40.48	48	98.56	138
20	58.816	200	52.71	42	13.40	37	86.63	90	11.750	255	54.69	92	40.00	51	99.94	90
30	58.616	198	53.13	1	13.03	37	87.53	44	11.495	253	55.61	55	39.49	51	100.84	39
Mai 10	58.418	191	53.14	40	12.66	36	87.97	3	11.242	240	56.16	16	38.98	50	101.23	12
20	58.227	178	52.74	80	12.30	32	87.94	49	11.002	216	56.32	22	38.48	45	101.11	62
30	58.049	159	51.94	117	11.98	28	87.45	94	10.786	186	56.10	60	38.03	41	100.49	110
Juni 9	57.890	136	50.77	151	11.70	23	86.51	133	10.600	150	55.50	95	37.62	34	99.39	154
19	57.754	110	49.26	181	11.47	18	85.18	171	10.450	109	54.55	127	37.28	26	97.85	193
29	57.644	82	47.45	206	11.29	11	83.47	203	10.341	65	53.28	155	37.02	18	95.92	227
Juli 9	57.562	50	45.39	226	11.18	4	81.44	230	10.276	20	51.73	181	36.84	10	93.65	255
19	57.512	16	43.13	238	11.14	2	79.14	252	10.256	27	49.92	201	36.74	0	91.10	278
29	57.496	20	40.75	244	11.16	8	76.62	268	10.283	74	47.91	219	36.74	8	88.32	295
Aug. 8	57.516	57	38.31	240	11.24	16	73.94	280	10.357	122	45.72	232	36.82	18	85.37	305
18	57.573	96	35.91	228	11.40	22	71.14	285	10.479	168	43.40	241	37.00	26	82.32	309
28	57.669	136	33.63	207	11.62	28	68.29	286	10.647	214	40.99	247	37.26	35	79.23	307
Sept. 7	57.805	176	31.56	178	11.90	35	65.43	281	10.861	260	38.52	247	37.61	44	76.16	300
17	57.981	216	29.78	140	12.25	41	62.62	270	11.121	305	36.05	243	38.05	52	73.16	285
27	58.197	253	28.38	95	12.66	47	59.92	253	11.426	348	33.62	235	38.57	59	70.31	265
Okt. 7	58.450	288	27.43	46	13.13	52	57.39	231	11.774	388	31.27	221	39.16	66	67.66	239
17	58.738	317	26.97	9	13.65	57	55.08	204	12.162	424	29.06	203	39.82	72	65.27	206
27	59.055	340	27.06	64	14.22	60	53.04	169	12.586	453	27.03	178	40.54	77	63.21	168
Nov. 6	59.395	354	27.70	118	14.82	63	51.35	130	13.039	475	25.25	149	41.31	80	61.53	124
16	59.749	358	28.88	170	15.45	64	50.05	87	13.514	486	23.76	113	42.11	82	60.29	75
26	60.107	353	30.58	217	16.09	64	49.18	39	14.000	485	22.63	75	42.93	81	59.54	24
Dez. 6	60.460	335	32.75	257	16.73	61	48.79	11	14.485	472	21.88	33	43.74	78	59.30	29
16	60.795	306	35.32	287	17.34	58	48.90	61	14.957	443	21.55	12	44.52	73	59.59	83
26	61.101	267	38.19	309	17.92	52	49.51	109	15.400	400	21.67	56	45.25	65	60.42	133
36	61.368		41.28		18.44		50.60		15.800		22.23		45.90		61.75	
Mittl. Ort	58.368		36.18		12.88		73.79		11.416		45.14		39.26		85.52	
sec δ, tg δ	1.232		−0.719		2.226		+1.989		1.622		+1.277		2.934		+2.759	
a, *a'*	+2.5		−15.7		+4.7		−15.8		+4.1		−15.9		+5.3		−15.9	
b, *b'*	+0.04		− 0.62		−0.10		− 0.62		−0.07		− 0.61		−0.15		− 0.61	

Scheinbare Sternörter 1945

Tag	360) 10 Leonis min. AR.		Dekl.		366) ϑ Antliae AR.		Dekl.		367) ε Leonis AR.		Dekl.		368) υ Ursae maj. AR.		Dekl.	
1945	$9^h\ 30^m$		+36° 38′		$9^h\ 41^m$		−27° 30′		$9^h\ 42^m$		+24° 1′		$9^h\ 47^m$		+59° 17′	
	s		″		s		″		s		″		s		″	
Jan. 1	51.527	297	27.62	6	45.181	244	52.11	291	43.832	276	38.38	68	5.872	446	44.77	101
11	51.824	249	27.68	40	45.425	199	55.02	294	44.108	233	37.70	37	6.318	376	45.78	146
21	52.073	191	28.08	73	45.624	149	57.96	288	44.341	183	37.33	8	6.694	295	47.24	184
31	52.264	130	28.81	101	45.773	95	60.84	276	44.524	129	37.25	20	6.989	206	49.08	214
Febr. 10	52.394	69	29.82	122	45.868	42	63.60	256	44.653	75	37.45	46	7.195	113	51.22	234
	13				15				16				17			
19	52.463	9	31.04	137	45.910	7	66.16	232	44.728	23	37.91	66	7.308	22	53.56	246
März 1	52.472	45	32.41	146	45.903	53	68.48	204	44.751	26	38.57	81	7.330	64	56.02	246
11	52.427	92	33.87	146	45.850	92	70.52	173	44.725	68	39.38	91	7.266	141	58.48	235
21	52.335	130	35.33	139	45.758	122	72.25	139	44.657	101	40.29	96	7.125	206	60.83	215
31	52.205	157	36.72	127	45.636	146	73.64	104	44.556	126	41.25	95	6.919	255	62.98	187
Apr. 10	52.048	173	37.99	110	45.490	161	74.68	69	44.430	141	42.20	90	6.664	291	64.85	153
20	51.875	180	39.09	89	45.329	168	75.37	34	44.289	149	43.10	81	6.373	310	66.38	113
30	51.695	177	39.98	65	45.161	168	75.71	2	44.140	147	43.91	70	6.063	315	67.51	69
Mai 10	51.518	166	40.63	39	44.993	163	75.69	37	43.993	139	44.61	56	5.748	306	68.20	25
20	51.352	147	41.02	13	44.830	152	75.32	71	43.854	126	45.17	42	5.442	285	68.45	20
30	51.205	125	41.15	13	44.678	137	74.61	102	43.728	107	45.59	26	5.157	254	68.25	63
Juni 9	51.080	97	41.02	37	44.541	118	73.59	131	43.621	85	45.85	11	4.903	216	67.62	104
19	50.983	66	40.65	61	44.423	96	72.28	156	43.536	60	45.96	6	4.687	171	66.58	143
29	50.917	34	40.04	83	44.327	71	70.72	177	43.476	34	45.90	21	4.516	121	65.15	176
Juli 9	50.883	1	39.21	103	44.256	45	68.95	194	43.442	7	45.69	36	4.395	68	63.39	206
19	50.882	34	38.18	121	44.211	16	67.01	203	43.435	21	45.33	51	4.327	12	61.33	231
29	50.916	68	36.97	138	44.195	16	64.98	207	43.456	50	44.82	67	4.315	44	59.02	252
Aug. 8	50.984	103	35.59	152	44.211	48	62.91	203	43.506	80	44.15	82	4.359	102	56.50	268
18	51.087	138	34.07	164	44.259	82	60.88	192	43.586	110	43.33	97	4.461	159	53.82	278
28	51.225	173	32.43	175	44.341	119	58.96	172	43.696	141	42.36	113	4.620	218	51.04	283
Sept. 7	51.398	209	30.68	184	44.460	155	57.24	145	43.837	173	41.23	128	4.838	274	48.21	284
17	51.607	243	28.84	190	44.615	192	55.79	111	44.010	205	39.95	141	5.112	330	45.37	278
27	51.850	277	26.94	192	44.807	228	54.68	70	44.215	237	38.54	155	5.442	384	42.59	267
Okt. 7	52.127	310	25.02	191	45.035	261	53.98	25	44.452	268	36.99	165	5.826	435	39.92	251
17	52.437	339	23.11	187	45.296	292	53.73	24	44.720	297	35.34	172	6.261	482	37.41	227
27	52.776	364	21.24	176	45.588	316	53.97	73	45.017	321	33.62	176	6.743	520	35.14	199
Nov. 6	53.140	383	19.48	162	45.904	333	54.70	122	45.338	341	31.86	174	7.263	550	33.15	163
16	53.523	394	17.86	141	46.237	341	55.92	168	45.679	353	30.12	167	7.813	569	31.52	123
26	53.917	393	16.45	116	46.578	340	57.60	209	46.032	355	28.45	155	8.382	573	30.29	78
Dez. 6	54.310	384	15.29	86	46.918	328	59.69	243	46.387	349	26.90	137	8.955	561	29.51	30
16	54.694	362	14.43	53	47.246	305	62.12	269	46.736	330	25.53	115	9.516	532	29.21	20
26	55.056	328	13.90	18	47.551	272	64.81	286	47.066	302	24.38	87	10.048	488	29.41	70
36	55.384		13.72		47.823		67.67		47.368		23.51		10.536		30.11	
Mittl. Ort	51.590		34.16		44.865		60.87		43.965		42.41		5.748		54.98	
sec δ, tg δ	1.246		+0.744		1.128		−0.521		1.095		+0.446		1.959		+1.684	
a, *a′*	+3.7		−15.9		+2.7		−16.5		+3.4		−16.6		+4.3		−16.8	
b, *b′*	−0.04		−0.61		+0.03		−0.57		−0.02		−0.56		−0.09		−0.55	

Tag		370) 6 Sextantis				372) Grb 1586 UMaj				375) φ Velorum				378) π Leonis			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$9^h 48^m$		$-3^\circ 59'$		$9^h 53^m$		$+73^\circ 8'$		$9^h 54^m$		$-54^\circ 18'$		$9^h 57^m$		$+8^\circ 18'$	
		s		″		s		″		s		″		s		″	
Jan.	1	27.679	248	2.13	205	31.40	73	21.09	150	56.823	314	3.49	333	18.333	264	32.07	152
	11	27.927	209	4.18	192	32.13	62	22.59	197	57.137	249	6.82	354	18.597	225	30.55	131
	21	28.136	163	6.10	174	32.75	48	24.56	237	57.386	179	10.36	366	18.822	180	29.24	107
	31	28.299	115	7.84	153	33.23	34	26.93	267	57.565	106	14.02	366	19.002	131	28.17	82
Febr.	10	28.414	65	9.37	130	33.57	18	29.60	285	57.671	32	17.68	357	19.133	81	27.35	55
		17				18				19				19			
	19	28.479	18	10.67	104	33.75	2	32.45	293	57.703	38	21.25	341	19.214	32	26.80	31
März	1	28.497	24	11.71	80	33.77	13	35.38	289	57.665	102	24.66	317	19.246	11	26.49	9
	11	28.473	61	12.51	56	33.64	27	38.27	271	57.563	158	27.83	286	19.235	50	26.40	10
	21	28.412	91	13.07	33	33.37	38	40.98	244	57.405	205	30.69	249	19.185	82	26.50	26
	31	28.321	113	13.40	12	32.99	47	43.42	208	57.200	243	33.18	209	19.103	105	26.76	39
Apr.	10	28.208	127	13.52	7	32.52	55	45.50	165	56.957	271	35.27	165	18.998	121	27.15	48
	20	28.081	133	13.45	25	31.97	59	47.15	116	56.686	290	36.92	118	18.877	129	27.63	55
	30	27.948	134	13.20	41	31.38	61	48.31	65	56.396	299	38.10	69	18.748	131	28.18	59
Mai	10	27.814	127	12.79	54	30.77	60	48.96	11	56.097	300	38.79	20	18.617	125	28.77	61
	20	27.687	117	12.25	68	30.17	57	49.07	41	55.797	293	38.99	30	18.492	115	29.38	61
	30	27.570	102	11.57	79	29.60	53	48.66	93	55.504	278	38.69	78	18.377	101	29.99	60
Juni	9	27.468	85	10.78	87	29.07	46	47.73	140	55.226	257	37.91	124	18.276	83	30.59	58
	19	27.383	64	9.91	95	28.61	38	46.33	184	54.969	230	36.67	167	18.193	64	31.17	54
	29	27.319	43	8.96	98	28.23	30	44.49	223	54.739	195	35.00	205	18.129	43	31.71	49
Juli	9	27.276	19	7.98	100	27.93	20	42.26	256	54.544	156	32.95	238	18.086	20	32.20	41
	19	27.257	5	6.98	98	27.73	10	39.70	283	54.388	111	30.57	263	18.066	5	32.61	33
	29	27.262	31	6.00	92	27.63	0	36.87	304	54.277	61	27.94	280	18.071	29	32.94	22
Aug.	8	27.293	58	5.08	81	27.63	11	33.83	319	54.216	7	25.14	289	18.100	57	33.16	8
	18	27.351	87	4.27	66	27.74	22	30.64	328	54.209	50	22.25	286	18.157	84	33.24	7
	28	27.438	117	3.61	48	27.96	32	27.36	329	54.259	111	19.39	274	18.241	114	33.17	26
Sept.	7	27.555	147	3.13	24	28.28	42	24.07	324	54.370	173	16.65	252	18.355	144	32.91	46
	17	27.702	179	2.89	4	28.70	53	20.83	313	54.543	233	14.13	218	18.499	176	32.45	69
	27	27.881	210	2.93	33	29.23	62	17.70	294	54.776	290	11.95	176	18.675	208	31.76	92
Okt.	7	28.091	240	3.26	65	29.85	71	14.76	269	55.066	344	10.19	126	18.883	239	30.84	115
	17	28.331	269	3.91	97	30.56	78	12.07	238	55.410	390	8.93	68	19.122	268	29.69	136
	27	28.600	293	4.88	128	31.34	85	9.69	200	55.800	426	8.25	7	19.390	293	28.33	156
Nov.	6	28.893	311	6.16	156	32.19	90	7.69	155	56.226	450	8.18	56	19.683	314	26.77	172
	16	29.204	322	7.72	180	33.09	93	6.14	106	56.676	460	8.74	118	19.997	327	25.05	183
	26	29.526	324	9.52	198	34.02	94	5.08	53	57.136	455	9.92	178	20.324	333	23.22	188
Dez.	6	29.850	318	11.50	209	34.96	92	4.55	4	57.591	435	11.70	232	20.657	327	21.34	186
	16	30.168	300	13.59	214	35.88	87	4.59	61	58.026	400	14.02	279	20.984	312	19.48	179
	26	30.468	273	15.73	212	36.75	80	5.20	115	58.426	352	16.81	316	21.296	288	17.69	165
	36	30.741		17.85		37.55		6.35		58.778		19.97		21.584		16.04	
Mittl. Ort		27.704		5.18		30.66		32.63		55.696		18.83		18.480		32.07	
sec δ, tg δ		1.002		−0.070		3.448		+3.300		1.714		−1.392		1.011		+0.146	
a, *a′*		+3.0		−16.8		+5.4		−17.1		+2.1		−17.1		+3.2		−17.2	
b, *b′*		0.00		− 0.54		−0.19		− 0.52		+0.08		− 0.52		−0.01		− 0.51	

Scheinbare Sternörter 1945

Tag	379) η Leonis AR.		379) η Leonis Dekl.		380) α Leonis AR.		380) α Leonis Dekl.	
1945	$10^h\ 4^m$		$+17°\ 1'$		$10^h\ 5^m$		$+12°\ 13'$	
	s		″		s		″	
Jan. 1	19.957	280	51.71	114	26.477	274	71.54	138
11	20.237	240	50.57	87	26.751	235	70.16	113
21	20.477	195	49.70	59	26.986	190	69.03	87
31	20.672	145	49.11	30	27.176	142	68.16	59
Febr. 10	20.817	94	48.81	2	27.318	91	67.57	33
20	21 20.911	43	48.79	22	21 27.409	42	67.24	8
März 1	20.954	3	49.01	42	27.451	3	67.16	14
11	20.951	45	49.43	58	27.448	43	67.30	32
21	20.906	78	50.01	69	27.405	76	67.62	46
31	20.828	104	50.70	76	27.329	101	68.08	56
Apr. 10	20.724	122	51.46	78	27.228	118	68.64	63
20	20.602	131	52.24	76	27.110	128	69.27	65
30	20.471	133	53.00	72	26.982	130	69.92	67
Mai 10	20.338	130	53.72	66	26.852	126	70.59	64
20	20.208	120	54.38	57	26.726	118	71.23	60
30	20.088	107	54.95	47	26.608	104	71.83	55
Juni 9	19.981	89	55.42	37	26.504	88	72.38	49
19	19.892	69	55.79	25	26.416	69	72.87	41
29	19.823	48	56.04	13	26.347	48	73.28	33
Juli 9	19.775	24	56.17	1	26.299	26	73.61	22
19	19.751	0	56.16	14	26.273	2	73.83	12
29	19.751	27	56.02	28	26.271	24	73.95	2
Aug. 8	19.778	53	55.74	44	26.295	50	73.93	16
18	19.831	83	55.30	61	26.345	78	73.77	33
28	19.914	112	54.69	79	26.423	107	73.44	51
Sept. 7	20.026	144	53.90	98	26.530	139	72.93	70
17	20.170	176	52.92	115	26.669	171	72.23	91
27	20.346	209	51.77	134	26.840	203	71.32	112
Okt. 7	20.555	242	50.43	151	27.043	235	70.26	133
17	20.797	272	48.92	166	27.278	266	68.87	151
27	21.069	299	47.26	177	27.544	293	67.36	167
Nov. 6	21.368	322	45.49	183	27.837	315	65.69	179
16	21.690	337	43.66	185	28.152	330	63.90	186
26	22.027	344	41.81	180	28.482	337	62.04	186
Dez. 6	22.371	340	40.01	170	28.819	333	60.18	181
16	22.711	327	38.31	154	29.152	320	58.37	170
26	23.038	303	36.77	132	29.472	297	56.67	152
36	23.341		35.45		29.769		55.15	
Mittl. Ort	20.170		53.91		26.679		72.45	
sec δ, tg δ	1.046		+0.306		1.023		+0.217	
a, *a′*	+3.3		−17.5		+3.2		−17.6	
b, *b′*	−0.02		− 0.48		−0.01		− 0.48	

Tag	381) λ Hydrae AR.		381) λ Hydrae Dekl.		382) 191 G. Velorum AR.		382) 191 G. Velorum Dekl.	
1945	$10^h\ 7^m$		$-12°\ 4'$		$10^h\ 12^m$		$-41°\ 50'$	
	s		″		s		″	
Jan. 1	54.289	261	47.56	238	25.855	294	41.88	312
11	54.550	222	49.94	232	26.149	245	45.00	327
21	54.772	178	52.26	220	26.394	190	48.27	335
31	54.950	130	54.46	203	26.584	131	51.62	333
Febr. 10	55.080	81	56.49	181	26.715	72	54.95	323
20	22 55.161	33	58.30	156	23 26.787	14	58.18	304
März 1	55.194	10	59.86	131	26.801	39	61.22	281
11	55.184	48	61.17	104	26.762	85	64.03	251
21	55.136	80	62.21	78	26.677	125	66.54	219
31	55.056	104	62.99	51	26.552	157	68.73	181
Apr. 10	54.952	121	63.50	27	26.395	181	70.54	141
20	54.831	130	63.77	3	26.214	196	71.95	100
30	54.701	134	63.80	20	26.018	205	72.95	58
Mai 10	54.567	131	63.60	41	25.813	207	73.53	14
20	54.436	125	63.19	61	25.606	202	73.67	29
30	54.311	113	62.58	79	25.404	194	73.38	70
Juni 9	54.198	99	61.79	95	25.210	179	72.68	110
19	54.099	82	60.84	109	25.031	160	71.58	147
29	54.017	63	59.75	119	24.871	136	70.11	180
Juli 9	53.954	41	58.56	127	24.735	109	68.31	207
19	53.913	18	57.29	129	24.626	78	66.24	229
29	53.895	7	56.00	128	24.548	43	63.95	242
Aug. 8	53.902	34	54.72	121	24.505	3	61.53	249
18	53.936	63	53.51	108	24.502	38	59.04	246
28	53.999	95	52.43	90	24.540	83	56.58	234
Sept. 7	54.094	127	51.53	67	24.623	131	54.24	212
17	54.221	161	50.86	39	24.754	178	52.12	182
27	54.382	195	50.47	6	24.932	226	50.30	142
Okt. 7	54.577	229	50.41	31	25.158	270	48.88	97
17	54.806	260	50.72	67	25.428	311	47.91	44
27	55.066	288	51.39	105	25.739	345	47.47	12
Nov. 6	55.354	309	52.44	141	26.084	370	47.59	68
16	55.663	323	53.85	173	26.454	385	48.27	125
26	55.986	329	55.58	200	26.839	388	49.52	178
Dez. 6	56.315	324	57.58	221	27.227	379	51.30	226
16	56.639	309	59.79	234	27.606	357	53.56	266
26	56.948	284	62.13	240	27.963	323	56.22	298
36	57.232		64.53		28.286		59.20	
Mittl. Ort	54.329		53.50		25.391		55.86	
sec δ, tg δ	1.023		−0.214		1.342		−0.896	
a, *a′*	+2.9		−17.7		+2.5		−17.9	
b, *b′*	+0.01		− 0.47		+0.05		− 0.45	

Tag	384) ζ Leonis AR.		384) ζ Leonis Dekl.		383) λ Ursae maj. AR.		383) λ Ursae maj. Dekl.		386) μ Ursae maj. AR.		386) μ Ursae maj. Dekl.		387) 30 H.Ursae maj. AR.		387) 30 H.Ursae maj. Dekl.	
1945	10h 13m		+23° 41′		10h 13m		+43° 10′		10h 19m		+41° 46′		10h 20m		+65° 50′	
	s		″		s		″		s		″		s		″	
Jan. 1	37.795	298	27.79	88	47.014	358	75.12	2	3.318	356	28.77	10	11.42	58	31.84	92
11	38.093	258	26.91	57	47.372	312	75.14	45	3.674	311	28.67	34	12.00	50	32.76	142
21	38.351	212	26.34	24	47.684	257	75.59	85	3.985	258	29.01	75	12.50	42	34.18	188
31	38.563	162	26.10	8	47.941	194	76.44	121	4.243	197	29.76	111	12.92	31	36.06	226
Febr. 10	38.725	108	26.18	37	48.135	128	77.65	150	4.440	134	30.87	141	13.23	21	38.32	253
20	^{23}38.833	55	26.55	61	^{23}48.263	63	79.15	172	^{25}4.574	70	32.28	163	^{25}13.44	9	40.85	270
März 1	38.888	7	27.16	81	48.326	2	80.87	184	4.644	9	33.91	179	13.53	1	43.55	275
11	38.895	37	27.97	95	48.328	55	82.71	189	4.653	46	35.70	184	13.52	12	46.30	269
21	38.858	74	28.92	102	48.273	102	84.60	184	4.607	93	37.54	181	13.40	21	48.99	252
31	38.784	103	29.94	105	48.171	140	86.44	172	4.514	131	39.35	171	13.19	27	51.51	225
Apr. 10	38.681	123	30.99	102	48.031	168	88.16	153	4.383	159	41.06	154	12.92	34	53.76	190
20	38.558	135	32.01	95	47.863	185	89.69	128	4.224	176	42.60	131	12.58	38	55.66	149
30	38.423	139	32.96	84	47.678	192	90.97	100	4.048	184	43.91	104	12.20	39	57.15	103
Mai 10	38.284	136	33.80	71	47.486	190	91.97	68	3.864	184	44.95	73	11.81	40	58.18	54
20	38.148	129	34.51	56	47.296	181	92.65	35	3.680	175	45.68	42	11.41	39	58.72	5
30	38.019	115	35.07	39	47.115	164	93.00	1	3.505	160	46.10	8	11.02	37	58.77	44
Juni 9	37.904	99	35.46	22	46.951	142	93.01	32	3.345	140	46.18	24	10.65	33	58.33	92
19	37.805	79	35.68	4	46.809	117	92.69	65	3.205	116	45.94	56	10.32	28	57.41	137
29	37.726	57	35.72	14	46.692	88	92.04	95	3.089	89	45.38	86	10.04	24	56.04	178
Juli 9	37.669	34	35.58	31	46.604	56	91.09	123	3.000	59	44.52	115	9.80	17	54.26	214
19	37.635	8	35.27	49	46.548	22	89.86	149	2.941	27	43.37	140	9.63	10	52.12	246
29	37.627	18	34.78	67	46.526	13	88.37	172	2.914	8	41.97	164	9.53	5	49.66	273
Aug. 8	37.645	47	34.11	84	46.539	49	86.65	192	2.922	42	40.33	185	9.48	3	46.93	294
18	37.692	76	33.27	102	46.588	88	84.73	210	2.964	80	38.48	204	9.51	10	43.99	310
28	37.768	107	32.25	120	46.676	128	82.63	225	3.044	118	36.44	218	9.61	18	40.89	319
Sept. 7	37.875	140	31.05	137	46.804	168	80.38	235	3.162	158	34.26	231	9.79	25	37.70	322
17	38.015	174	29.68	153	46.972	210	78.03	242	3.320	200	31.95	239	10.04	33	34.48	319
27	38.189	209	28.15	168	47.182	251	75.61	246	3.520	241	29.56	244	10.37	39	31.29	309
Okt. 7	38.398	243	26.47	180	47.433	293	73.15	243	3.761	281	27.12	243	10.76	47	28.20	293
17	38.641	276	24.67	189	47.726	332	70.72	236	4.042	321	24.69	238	11.23	53	25.27	269
27	38.917	305	22.78	195	48.058	366	68.36	223	4.363	356	22.31	226	11.76	59	22.58	239
Nov. 6	39.222	330	20.83	195	48.424	396	66.13	204	4.719	386	20.05	209	12.35	63	20.19	202
16	39.552	348	18.88	189	48.820	417	64.09	178	5.105	408	17.96	185	12.98	67	18.17	158
26	39.900	357	16.99	178	49.237	427	62.31	148	5.513	419	16.11	156	13.65	69	16.59	109
Dez. 6	40.257	355	15.21	160	49.664	426	60.83	111	5.932	420	14.55	120	14.34	69	15.50	56
16	40.612	344	13.61	138	50.090	412	59.72	70	6.352	407	13.35	81	15.03	66	14.94	0
26	40.956	320	12.23	109	50.502	386	59.02	27	6.759	382	12.54	38	15.69	62	14.94	55
36	41.276		11.14		50.888		58.75		7.141		12.16		16.31		15.49	
Mittl. Ort	38.066		31.63		47.258		83.34		3.597		36.76		11.36		43.49	
sec δ, tg δ	1.092		+0.439		1.372		+0.939		1.341		+0.893		2.444		+2.230	
a, a′	+3.3		−17.9		+3.6		−17.9		+3.6		−18.1		+4.3		−18.2	
b, b′	−0.03		− 0.45		−0.06		− 0.45		−0.05		− 0.43		−0.13		− 0.42	

Tag	391) I Carinae				389) μ Hydrae				392) α Antliae				390) β Leonis min.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$10^h\ 23^m$		$-73°\ 44'$		$10^h\ 23^m$		$-16°\ 33'$		$10^h\ 24^m$		$-30°\ 47'$		$10^h\ 24^m$		$+36°\ 58'$	
	s		"		s		"		s		"		s		"	
Jan. 1	21.62	60	44.74	306	25.635	273	9.87	252	38.042	286	1.45	287	42.210	341	75.93	36
11	22.22	49	47.80	341	25.908	236	12.39	250	38.328	244	4.32	297	42.551	300	75.57	5
21	22.71	36	51.21	368	26.144	192	14.89	242	38.572	197	7.29	298	42.851	249	75.62	45
31	23.07	22	54.89	382	26.336	144	17.31	227	38.769	145	10.27	292	43.100	193	76.07	81
Febr. 10	23.29	8	58.71	388	26.480	96	19.58	208	38.914	92	13.19	279	43.293	134	76.88	112
20	26 23.37	5	62.59	384	26 26.576	48	21.66	185	26 39.006	41	15.98	259	26 43.427	75	78.00	137
März 1	23.32	18	66.43	371	26.624	3	23.51	160	39.047	7	18.57	235	43.502	17	79.37	154
11	23.14	29	70.14	349	26.627	36	25.11	132	39.040	49	20.92	207	43.519	35	80.91	163
21	22.85	41	73.63	322	26.591	69	26.43	105	38.991	86	22.99	177	43.484	78	82.54	164
31	22.44	49	76.85	286	26.522	95	27.48	78	38.905	114	24.76	143	43.406	114	84.18	159
Apr. 10	21.95	57	79.71	246	26.427	114	28.26	50	38.791	136	26.19	108	43.292	141	85.77	145
20	21.38	62	82.17	200	26.313	127	28.76	23	38.655	150	27.27	74	43.151	157	87.22	127
30	20.76	67	84.17	151	26.186	132	28.99	3	38.505	159	28.01	37	42.994	165	88.49	105
Mai 10	20.09	70	85.68	100	26.054	133	28.96	27	38.346	161	28.38	2	42.829	166	89.54	79
20	19.39	71	86.68	45	25.921	129	28.69	51	38.185	158	28.40	34	42.663	158	90.33	50
30	18.68	71	87.13	9	25.792	120	28.18	73	38.027	151	28.06	67	42.505	146	90.83	22
Juni 9	17.97	68	87.04	63	25.672	109	27.45	93	37.876	139	27.39	100	42.359	129	91.05	8
19	17.29	64	86.41	115	25.563	94	26.52	111	37.737	124	26.39	129	42.230	107	90.97	36
29	16.65	58	85.26	164	25.469	77	25.41	125	37.613	106	25.10	154	42.123	83	90.61	65
Juli 9	16.07	51	83.62	209	25.392	58	24.16	135	37.507	85	23.56	175	42.040	56	89.96	90
19	15.56	42	81.53	246	25.334	35	22.81	142	37.422	59	21.81	192	41.984	28	89.06	116
29	15.14	32	79.07	277	25.299	11	21.39	144	37.363	31	19.89	201	41.956	3	87.90	139
Aug. 8	14.82	20	76.30	298	25.288	17	19.95	139	37.332	0	17.88	203	41.959	36	86.51	160
18	14.62	8	73.32	310	25.305	45	18.56	130	37.332	35	15.85	199	41.995	69	84.91	179
28	14.54	6	70.22	311	25.350	78	17.26	113	37.367	72	13.86	186	42.064	105	83.12	196
Sept. 7	14.60	20	67.11	299	25.428	112	16.13	91	37.439	111	12.00	165	42.169	143	81.16	211
17	14.80	33	64.12	278	25.540	147	15.22	63	37.550	153	10.35	136	42.312	182	79.05	221
27	15.13	46	61.34	244	25.687	184	14.59	30	37.703	195	8.99	100	42.494	221	76.84	230
Okt. 7	15.59	58	58.90	200	25.871	220	14.29	7	37.898	235	7.99	57	42.715	260	74.54	233
17	16.17	68	56.90	148	26.091	255	14.36	46	38.133	273	7.42	11	42.975	299	72.21	232
27	16.85	77	55.42	89	26.346	284	14.82	87	38.406	305	7.31	38	43.274	333	69.89	225
Nov. 6	17.62	82	54.53	24	26.630	308	15.69	127	38.711	331	7.69	88	43.607	362	67.64	214
16	18.44	85	54.29	43	26.938	326	16.96	163	39.042	349	8.57	138	43.969	384	65.50	194
26	19.29	85	54.72	108	27.264	333	18.59	195	39.391	356	9.95	182	44.353	396	63.56	169
Dez. 6	20.14	82	55.80	172	27.597	332	20.54	221	39.747	352	11.77	221	44.749	398	61.87	138
16	20.96	76	57.52	230	27.929	318	22.75	239	40.099	337	13.98	254	45.147	388	60.49	103
26	21.72	67	59.82	280	28.247	296	25.14	251	40.436	310	16.52	278	45.535	364	59.46	64
36	22.39		62.62		28.543		27.65		40.746		19.30		45.899		58.82	
Mittl. Ort	18.58		65.02		25.708		17.69		37.919		13.32		42.533		82.95	
sec δ, tg δ	3.574		−3.431		1.043		−0.297		1.164		−0.596		1.252		+0.753	
a, *a′*	+1.2		−18.3		+2.9		−18.3		+2.8		−18.3		+3.5		−18.3	
b, *b′*	+0.21		−0.41		+0.02		−0.41		+0.04		−0.40		−0.05		−0.40	

Tag	393) 196 G. Carinae AR.		Dekl.		394) 36 Ursae maj. AR.		Dekl.	
1945	$10^h\ 25^m$		$-58°\ 27'$		$10^h\ 27^m$		$+56°\ 15'$	
	s		"		s		"	
Jan. 1	52.354	384	10.90	314	7.016	458	37.39	45
11	52.738	318	14.04	342	7.474	403	37.84	95
21	53.056	245	17.46	362	7.877	335	38.79	141
31	53.301	168	21.08	371	8.212	259	40.20	180
Febr. 10	53.469	89	24.79	370	8.471	177	42.00	211
20	$_{27}$53.558	13	28.49	360	$_{27}$8.648	93	44.11	232
März 1	53.571	$\overline{59}$	32.09	343	8.741	12	46.43	243
11	53.512	125	35.52	317	8.753	$\overline{64}$	48.86	243
21	53.387	181	38.69	287	8.689	129	51.29	233
31	53.206	230	41.56	250	8.560	183	53.62	214
Apr. 10	52.976	268	44.06	209	8.377	225	55.76	186
20	52.708	296	46.15	164	8.152	253	57.62	153
30	52.412	317	47.79	116	7.899	269	59.15	115
Mai 10	52.095	328	48.95	67	7.630	273	60.30	72
20	51.767	330	49.62	17	7.357	266	61.02	28
30	51.437	325	49.79	$\overline{33}$	7.091	249	61.30	$\overline{15}$
Juni 9	51.112	310	49.46	83	6.842	224	61.15	58
19	50.802	289	48.63	130	6.618	193	60.57	99
29	50.513	260	47.33	173	6.425	156	59.58	138
Juli 9	50.253	223	45.60	211	6.269	116	58.20	173
19	50.030	179	43.49	243	6.153	72	56.47	205
29	49.851	128	41.06	268	6.081	24	54.42	232
Aug. 8	49.723	70	38.38	283	6.057	$\overline{24}$	52.10	254
18	49.653	7	35.55	290	6.081	76	49.56	273
28	49.646	$\overline{60}$	32.65	285	6.157	129	46.83	286
Sept. 7	49.706	131	29.80	271	6.286	183	43.97	295
17	49.837	203	27.09	245	6.469	238	41.02	297
27	50.040	273	24.64	208	6.707	293	38.05	294
Okt. 7	50.313	338	22.56	164	7.000	347	35.11	285
17	50.651	397	20.92	110	7.347	399	32.26	269
27	51.048	446	19.82	51	7.746	444	29.57	246
Nov. 6	51.494	482	19.31	$\overline{11}$	8.190	484	27.11	217
16	51.976	503	19.42	75	8.674	513	24.94	180
26	52.479	508	20.17	138	9.187	529	23.14	139
Dez. 6	52.987	494	21.55	195	9.716	532	21.75	92
16	53.481	465	23.50	248	10.248	519	20.83	41
26	53.946	421	25.98	293	10.767	489	20.42	$\overline{11}$
36	54.367		28.91		11.256		20.53	
Mittl. Ort	51.292		29.16		7.228		48.01	
sec δ, tg δ	1.912		−1.629		1.801		+1.497	
a, a′	+2.2		−18.4		+3.9		−18.4	
b, b′	+0.10		−0.40		−0.09		−0.39	

Tag	395) 9 H. Draconis AR.		Dekl.		1273) 219 G. Velorum AR.		Dekl.	
1945	$10^h\ 30^m$		$+75°\ 59'$		$10^h\ 30^m$		$-46°\ 42'$	
	s		"		s		"	
Jan. 1	29.02	94	37.31	115	37.903	328	54.26	307
11	29.96	83	38.46	169	38.231	278	57.33	328
21	30.79	68	40.15	216	38.509	222	60.61	342
31	31.47	52	42.31	254	38.731	160	64.03	345
Febr. 10	31.99	34	44.85	283	38.891	98	67.48	340
20	$_{28}$32.33	16	47.68	298	$_{28}$38.989	37	70.88	327
März 1	32.49	$\overline{2}$	50.66	303	39.026	$\overline{20}$	74.15	306
11	32.47	20	53.69	294	39.006	72	77.21	280
21	32.27	35	56.63	273	38.934	116	80.01	249
31	31.92	48	59.36	243	38.818	153	82.50	213
Apr. 10	31.44	59	61.79	204	38.665	183	84.63	175
20	30.85	66	63.83	158	38.482	203	86.38	132
30	30.19	71	65.41	107	38.279	217	87.70	89
Mai 10	29.48	74	66.48	53	38.062	224	88.59	44
20	28.74	73	67.01	$\overline{2}$	37.838	225	89.03	0
30	28.01	70	66.99	56	37.613	220	89.03	46
Juni 9	27.31	64	66.43	108	37.393	209	88.57	89
19	26.67	57	65.35	157	37.184	193	87.68	129
29	26.10	49	63.78	202	36.991	171	86.39	167
Juli 9	25.61	39	61.76	242	36.820	145	84.72	198
19	25.22	28	59.34	276	36.675	114	82.74	225
29	24.94	16	56.58	304	36.561	77	80.49	245
Aug. 8	24.78	4	53.54	326	36.484	36	78.04	255
18	24.74	$\overline{9}$	50.28	340	36.448	$\overline{10}$	75.49	258
28	24.83	21	46.88	349	36.458	59	72.91	250
Sept. 7	25.04	34	43.39	351	36.517	111	70.41	234
17	25.38	47	39.88	345	36.628	165	68.07	206
27	25.85	59	36.43	331	36.793	218	66.01	171
Okt. 7	26.44	71	33.12	311	37.011	270	64.30	127
17	27.15	82	30.01	283	37.281	317	63.03	75
27	27.97	92	27.18	247	37.598	358	62.28	19
Nov. 6	28.89	99	24.71	205	37.956	388	62.09	$\overline{39}$
16	29.88	106	22.66	156	38.344	409	62.48	97
26	30.94	108	21.10	101	38.753	416	63.45	154
Dez. 6	32.02	109	20.09	43	39.169	409	64.99	207
16	33.11	106	19.66	$\overline{16}$	39.578	390	67.06	251
26	34.17	100	19.82	76	39.968	357	69.57	290
36	35.17		20.58		40.325		72.47	
Mittl. Ort	28.52		49.93		37.433		70.44	
sec δ, tg δ	4.133		+4.010		1.459		−1.062	
a, a′	+5.1		−18.5		+2.5		−18.5	
b, b′	−0.25		−0.38		+0.07		−0.38	

Scheinbare Sternörter 1945

Tag	404) 33 Sextantis AR.		404) Dekl.		406) ϑ Carinae AR.		406) Dekl.		407) 42 Leonis min. AR.		407) Dekl.		409) 53 Leonis AR.		409) Dekl.	
1945	$10^h\ 38^m$		$-1°\ 27'$		$10^h\ 40^m$		$-64°\ 6'$		$10^h\ 42^m$		$+30°\ 57'$		$10^h\ 46^m$		$+10°\ 49'$	
	s		″		s		″		s		″		s		″	
Jan. 1	35.981	283	3.16	203	60.66	46	0.64	300	48.232	333	75.51	77	21.637	297	72.35	161
11	36.264	250	5.19	189	61.12	39	3.64	333	48.565	297	74.74	38	21.934	264	70.74	136
21	36.514	209	7.08	171	61.51	31	6.97	359	48.862	252	74.36	$\overline{1}$	22.198	225	69.38	109
31	36.723	165	8.79	149	61.82	21	10.56	374	49.114	201	74.37	38	22.423	180	68.29	80
Febr. 10	36.888	117	10.28	124	62.03	13	14.30	378	49.315	147	74.75	72	22.603	132	67.49	51
20	37.005	71	11.52	98	62.16	4	18.08	374	49.462	92	75.47	100	22.735	84	66.98	23
März 2	37.076	26	12.50	73	62.20	$\overline{5}$	21.82	362	49.554	39	76.47	122	22.819	39	66.75	$\overline{3}$
11	[2] 37.102	$\overline{13}$	13.23	48	[2] 62.15	13	25.44	340	[3] 49.593	$\overline{10}$	77.69	136	[4] 22.858	$\overline{3}$	66.78	23
21	37.089	46	13.71	27	62.02	19	28.84	313	49.583	53	79.05	144	22.855	39	67.01	42
31	37.043	74	13.98	6	61.83	26	31.97	279	49.530	86	80.49	144	22.816	68	67.43	55
Apr. 10	36.969	94	14.04	$\overline{11}$	61.57	30	34.76	240	49.444	114	81.93	138	22.748	90	67.98	64
20	36.875	108	13.93	26	61.27	35	37.16	197	49.330	132	83.31	127	22.658	105	68.62	70
30	36.767	116	13.67	39	60.92	38	39.13	150	49.198	141	84.58	110	22.553	114	69.32	71
Mai 10	36.651	117	13.28	51	60.54	39	40.63	100	49.057	146	85.68	90	22.439	117	70.03	71
20	36.534	114	12.77	59	60.15	41	41.63	48	48.911	142	86.58	67	22.322	114	70.74	68
30	36.420	108	12.18	67	59.74	41	42.11	$\overline{4}$	48.769	133	87.25	44	22.208	109	71.42	63
Juni 9	36.312	98	11.51	73	59.33	40	42.07	56	48.636	122	87.69	18	22.099	99	72.05	57
19	36.214	85	10.78	76	58.93	37	41.51	105	48.514	105	87.87	$\overline{8}$	22.000	86	72.62	48
29	36.129	70	10.02	78	58.56	35	40.46	152	48.409	85	87.79	32	21.914	72	73.10	39
Juli 9	36.059	53	9.24	77	58.21	31	38.94	196	48.324	64	87.47	58	21.842	54	73.49	29
19	36.006	33	8.47	73	57.90	26	36.98	232	48.260	40	86.89	81	21.788	35	73.78	16
29	35.973	12	7.74	66	57.64	20	34.66	262	48.220	13	86.08	105	21.753	14	73.94	2
Aug. 8	35.961	$\overline{12}$	7.08	56	57.44	13	32.04	283	48.207	$\overline{15}$	85.03	127	21.739	$\overline{10}$	73.96	$\overline{13}$
18	35.973	39	6.52	43	57.31	5	29.21	295	48.222	45	83.76	147	21.749	37	73.83	31
28	36.012	68	6.09	24	57.26	$\overline{2}$	26.26	296	48.267	78	82.29	167	21.786	65	73.52	50
Sept. 7	36.080	100	5.85	4	57.28	11	23.30	287	48.345	114	80.62	184	21.851	97	73.02	70
17	36.180	134	5.81	$\overline{21}$	57.39	20	20.43	265	48.459	151	78.78	200	21.948	131	72.32	93
27	36.314	169	6.02	49	57.59	29	17.78	234	48.610	189	76.78	214	22.079	166	71.39	115
Okt. 7	36.483	204	6.51	78	57.88	37	15.44	192	48.799	228	74.64	222	22.245	202	70.24	137
17	36.687	238	7.29	107	58.25	44	13.52	141	49.027	267	72.42	228	22.447	237	68.87	158
27	36.925	270	8.36	135	58.69	51	12.11	84	49.294	302	70.14	228	22.684	270	67.29	176
Nov. 6	37.195	296	9.71	161	59.20	55	11.27	22	49.596	333	67.86	222	22.954	298	65.53	190
16	37.491	317	11.32	183	59.75	58	11.05	$\overline{43}$	49.929	357	65.64	211	23.252	320	63.63	200
26	37 808	328	13.15	200	60.33	59	11.48	108	50.286	373	63.53	193	23.572	335	61.63	204
Dez. 6	38.136	330	15.15	210	60.92	58	12.56	169	50.659	377	61.60	168	23.907	338	59.59	200
16	38.466	322	17.25	214	61.50	55	14.25	225	51.036	372	59.92	137	24.245	333	57.59	191
26	38.788	303	19.39	210	62.05	50	16.50	275	51.408	353	58.55	103	24.578	316	55.68	174
36	39.091		21.49		62.55		19.25		51.761		57.52		24.894		53.94	
Mittl. Ort	36.267		6.89		59.37		20.83		48.653		81.12		22.028		72.25	
sec δ, tg δ	1.000		−0.025		2.290		−2.060		1.166		+0.600		1.018		+0.191	
a, *a′*	+3.1		−18.8		+2.1		−18.9		+3.3		−18.9		+3.2		−19.0	
b, *b′*	0.00		− 0.35		+0.13		− 0.34		−0.04		− 0.33		−0.01		− 0.32	

Tag	415) 239 G. Velorum AR.		415) Dekl.		416) β Ursae maj. AR.		416) Dekl.		417) α Ursae maj. AR.		417) Dekl.		418) χ Leonis AR.		418) Dekl.	
1945	$10^h\ 57^m$		−41° 55′		$10^h\ 58^m$		+56° 40′		$11^h\ 0^m$		+62° 2′		$11^h\ 2^m$		+7° 37′	
	s		″		s		″		s		″		s		″	
Jan. 1	37.598	338	33.48	286	31.704	487	28.49	11	20.63	56	42.15	28	10.363	301	62.81	178
11	37.936	296	36.34	308	32.191	441	28.60	65	21.19	50	42.43	84	10.664	271	61.03	156
21	38.232	248	39.42	321	32.632	381	29.25	116	21.69	43	43.27	137	10.935	234	59.47	130
31	38.480	193	42.63	326	33.013	309	30.41	161	22.12	36	44.64	182	11.169	191	58.17	103
Febr. 10	38.673	137	45.89	323	33.322	230	32.02	198	22.48	26	46.46	220	11.360	145	57.14	74
20	38.810	80	49.12	311	33.552	148	34.00	227	22.74	17	48.66	247	11.505	98	56.40	45
März 2	(7) 38.890	27	52.23	294	(7) 33.700	67	36.27	245	(7) 22.91	7	51.13	265	(8) 11.603	53	55.95	20
11	38.917	23	55.17	271	33.767	11	38.72	253	22.98	2	53.78	270	11.656	12	55.75	4
21	38.894	65	57.88	242	33.756	82	41.25	249	22.96	10	56.48	264	11.668	24	55.79	24
31	38.829	103	60.30	211	33.674	142	43.74	235	22.86	17	59.12	247	11.644	54	56.03	40
Apr. 10	38.726	132	62.41	176	33.532	191	46.09	213	22.69	24	61.59	222	11.590	78	56.43	53
20	38.594	156	64.17	138	33.341	229	48.22	183	22.45	27	63.81	189	11.512	94	56.96	60
30	38.438	173	65.55	98	33.112	253	50.05	146	22.18	31	65.70	149	11.418	105	57.56	66
Mai 10	38.265	184	66.53	58	32.859	267	51.51	106	21.87	33	67.19	104	11.313	111	58.22	69
20	38.081	189	67.11	16	32.592	270	52.57	62	21.54	34	68.23	58	11.202	112	58.91	68
30	37.892	189	67.27	24	32.322	262	53.19	18	21.20	32	68.81	9	11.090	108	59.59	66
Juni 9	37.703	185	67.03	64	32.060	246	53.37	28	20.88	31	68.90	40	10.982	101	60.25	62
19	37.518	175	66.39	103	31.814	224	53.09	72	20.57	28	68.50	86	10.881	92	60.87	57
29	37.343	161	65.36	138	31.590	194	52.37	115	20.29	25	67.64	130	10.789	79	61.44	49
Juli 9	37.182	142	63.98	170	31.396	160	51.22	154	20.04	20	66.34	172	10.710	65	61.93	41
19	37.040	118	62.28	195	31.236	121	49.68	190	19.84	16	64.62	210	10.645	48	62.34	30
29	36.922	89	60.33	216	31.115	79	47.78	222	19.68	11	62.52	244	10.597	28	62.64	17
Aug. 8	36.833	55	58.17	228	31.036	32	45.56	250	19.57	5	60.08	272	10.569	6	62.81	3
18	36.778	16	55.89	233	31.004	17	43.06	274	19.52	1	57.36	295	10.563	19	62.84	13
28	36.762	27	53.56	230	31.021	69	40.32	293	19.53	6	54.41	313	10.582	48	62.71	33
Sept. 7	36.789	75	51.26	216	31.090	125	37.39	306	19.59	13	51.28	325	10.630	79	62.38	54
17	36.864	125	49.10	193	31.215	182	34.33	314	19.72	20	48.03	331	10.709	113	61.84	76
27	36.989	177	47.17	162	31.397	240	31.19	315	19.92	27	44.72	330	10.822	148	61.08	101
Okt. 7	37.166	227	45.55	123	31.637	299	28.04	310	20.19	34	41.42	323	10.970	186	60.07	124
17	37.393	276	44.32	76	31.936	357	24.94	299	20.53	40	38.19	307	11.156	223	58.83	148
27	37.669	319	43.56	25	32.293	410	21.95	280	20.93	46	35.12	285	11.379	257	57.35	169
Nov. 6	37.988	355	43.31	29	32.703	457	19.15	253	21.39	52	32.27	255	11.636	288	55.66	186
16	38.343	380	43.60	85	33.160	496	16.62	219	21.91	56	29.72	217	11.924	312	53.80	200
26	38.723	395	44.45	138	33.656	522	14.43	179	22.47	60	27.55	172	12.236	329	51.80	207
Dez. 6	39.118	397	45.83	188	34.178	535	12.64	131	23.07	60	25.83	122	12.565	336	49.73	208
16	39.515	385	47.71	231	34.713	532	11.33	80	23.67	61	24.61	68	12.901	333	47.65	202
26	39.900	361	50.02	269	35.245	512	10.53	26	24.28	58	23.93	9	13.234	318	45.63	191
36	40.261		52.71		35.757		10.27		24.86		23.84		13.552		43.72	
Mittl. Ort	37.495		49.92		32.139		39.57		21.02		54.01		10.822		61.46	
sec δ, tg δ	1.344		−0.898		1.820		+1.521		2.133		+1.885		1.009		+0.134	
a, a′	+2.8		−19.3		+3.6		−19.3		+3.7		−19.4		+3.1		−19.4	
b, b′	+0.06		−0.27		−0.10		−0.27		−0.12		−0.26		−0.01		−0.25	

Scheinbare Sternörter 1945

Tag	420) ψ Ursae maj. AR.		Dekl.		421) β Crateris AR.		Dekl.		422) δ Leonis AR.		Dekl.		423) ϑ Leonis AR.		Dekl.	
1945	$11^h\ 6^m$		$+44°\ 47'$		$11^h\ 8^m$		$-22°\ 31'$		$11^h\ 11^m$		$+20°\ 49'$		$11^h\ 11^m$		$+15°\ 43'$	
	s		"		s		"		s		"		s		"	
Jan. 1	34.182	400	41.43	43	56.697	308	19.48	256	10.583	323	28.62	137	20.784	315	48.71	154
11	34.582	365	41.00	$\overline{6}$	57.005	275	22.04	263	10.906	295	27.25	103	21.099	287	47.17	125
21	34.947	317	41.06	54	57.280	236	24.67	262	11.201	257	26.22	68	21.386	250	45.92	94
31	35.264	262	41.60	99	57.516	191	27.29	254	11.458	213	25.54	33	21.636	206	44.98	60
Febr. 10	35.526	200	42.59	138	57.707	145	29.83	241	11.671	164	25.21	$\overline{2}$	21.842	160	44.38	28
20	35.726	135	43.97	170	57.852	97	32.24	223	11.835	116	25.23	34	22.002	112	44.10	$\overline{2}$
März 2	$_{9}$35.861	72	45.67	192	$_{9}$57.949	51	34.47	201	$_{10}$11.951	68	25.57	60	$_{10}$22.114	66	44.12	30
11	35.933	12	47.59	206	58.000	10	36.48	176	12.019	22	26.17	82	22.180	22	44.42	52
21	35.945	$\overline{43}$	49.65	211	58.010	$\overline{27}$	38.24	149	12.041	$\overline{17}$	26.99	98	22.202	$\overline{16}$	44.94	70
31	35.902	89	51.76	205	57.983	58	39.73	122	12.024	50	27.97	107	22.186	48	45.64	83
Apr. 10	35.813	126	53.81	193	57.925	83	40.95	94	11.974	77	29.04	112	22.138	73	46.47	89
20	35.687	155	55.74	172	57.842	102	41.89	65	11.897	97	30.16	110	22.065	93	47.36	93
30	35.532	174	57.46	145	57.740	115	42.54	37	11.800	111	31.26	104	21.972	105	48.29	91
Mai 10	35.358	185	58.91	115	57.625	124	42.91	9	11.689	118	32.30	94	21.867	112	49.20	86
20	35.173	187	60.06	80	57.501	127	43.00	$\overline{18}$	11.571	119	33.24	81	21.755	115	50.06	77
30	34.986	183	60.86	43	57.374	128	42.82	44	11.452	118	34.05	67	21.640	112	50.83	68
Juni 9	34.803	173	61.29	6	57.246	124	42.38	69	11.334	111	34.72	49	21.528	106	51.51	55
19	34.630	158	61.35	$\overline{31}$	57.122	117	41.69	91	11.223	101	35.21	31	21.422	98	52.06	42
29	34.472	137	61.04	68	57.005	106	40.78	112	11.122	89	35.52	12	21.324	85	52.48	27
Juli 9	34.335	114	60.36	103	56.899	94	39.66	128	11.033	74	35.64	$\overline{8}$	21.239	72	52.75	11
19	34.221	88	59.33	136	56.805	76	38.38	141	10.959	57	35.56	28	21.167	54	52.86	$\overline{5}$
29	34.133	57	57.97	167	56.729	56	36.97	150	10.902	36	35.28	49	21.113	35	52.81	23
Aug. 8	34.076	23	56.30	195	56.673	32	35.47	152	10.866	13	34.79	70	21.078	13	52.58	42
18	34.053	$\overline{12}$	54.35	219	56.641	3	33.95	148	10.853	$\overline{14}$	34.09	90	21.065	$\overline{12}$	52.16	61
28	34.065	52	52.16	241	56.638	$\overline{29}$	32.47	138	10.867	42	33.19	112	21.077	41	51.55	82
Sept. 7	34.117	94	49.75	259	56.667	65	31.09	122	10.909	75	32.07	134	21.118	72	50.73	103
17	34.211	139	47.16	272	56.732	104	29.87	98	10.984	110	30.73	154	21.190	108	49.70	125
27	34.350	186	44.44	280	56.836	145	28.89	68	11.094	148	29.19	173	21.298	144	48.45	147
Okt. 7	34.536	234	41.64	285	56.981	187	28.21	34	11.242	187	27.46	191	21.442	182	46.98	166
17	34.770	280	38.79	282	57.168	228	27.87	$\overline{6}$	11.429	226	25.55	206	21.624	220	45.32	185
27	35.050	326	35.97	272	57.396	266	27.93	47	11.655	262	23.49	216	21.844	257	43.47	199
Nov. 6	35.376	367	33.25	257	57.662	298	28.40	89	11.917	296	21.33	223	22.101	290	41.48	210
16	35.743	399	30.68	233	57.960	324	29.29	131	12.213	324	19.10	222	22.391	316	39.38	216
26	36.142	423	28.35	202	58.284	341	30.60	169	12.537	343	16.88	216	22.707	335	37.22	214
Dez. 6	36.565	435	26.33	166	58.625	346	32.29	203	12.880	353	14.72	203	23.042	344	35.08	207
16	37.000	434	24.67	123	58.971	342	34.32	229	13.233	352	12.69	183	23.386	344	33.01	192
26	37.434	421	23.44	75	59.313	326	36.61	249	13.585	340	10.86	157	23.730	331	31.09	171
36	37.855		22.69		59.639		39.10		13.925		9.29		24.061		29.38	
Mittl. Ort	34.726		50.35		56.980		30.78		11.135		31.27		21.322		49.80	
sec δ, tg δ	1.409		+0.993		1.083		−0.415		1.070		+0.380		1.039		+0.282	
a, *a'*	+3.4		−19.5		+3.0		−19.5		+3.2		−19.6		+3.2		−19.6	
b, *b'*	−0.06		−0.23		+0.03		−0.22		−0.02		−0.21		−0.02		−0.21	

Obere Kulmination Greenwich

Tag	425) ν Ursae maj. AR.	Δ	Dekl.	Δ	426) δ Crateris AR.	Δ	Dekl.	Δ	427) σ Leonis AR.	Δ	Dekl.	Δ	428) π Centauri AR.	Δ	Dekl.	Δ
1945	11h 15m		+33° 23′		11h 16m		−14° 28′		11h 18m		+6° 19′		11h 18m		−54° 11′	
	s		″		s		″		s		″		s		″	
Jan. 1	30.142	356	34.63	94	34.894	305	41.39	238	17.481	308	53.83	186	29.709	418	1.18	270
11	30.498	326	33.69	51	35.199	276	43.77	238	17.789	280	51.97	166	30.127	371	3.88	305
21	30.824	286	33.18	8	35.475	239	46.15	230	18.069	246	50.31	141	30.498	314	6.93	330
31	31.110	238	33.10	$\overline{35}$	35.714	196	48.45	217	18.315	205	48.90	114	30.812	252	10.23	346
Febr. 10	31.348	186	33.45	73	35.910	152	50.62	200	18.520	160	47.76	85	31.064	186	13.69	353
20	31.534	131	34.18	106	36.062	106	52.62	179	18.680	114	46.91	56	31.250	119	17.22	351
März 2	31.665	77	35.24	132	36.168	62	54.41	155	18.794	69	46.35	29	31.369	53	20.73	341
11*)	^{11}31.742	26	36.56	152	^{11}36.230	22	55.96	130	18.863	28	46.06	5	31.422	$\overline{9}$	24.14	325
21	31.768	$\overline{19}$	38.08	163	36.252	$\overline{14}$	57.26	105	^{12}18.891	$\overline{8}$	46.01	$\overline{17}$	^{12}31.413	63	27.39	301
31	31.749	59	39.71	166	36.238	45	58.31	80	18.883	39	46.18	34	31.350	113	30.40	272
Apr. 10	31.690	90	41.37	162	36.193	69	59.11	55	18.844	64	46.52	48	31.237	155	33.12	238
20	31.600	114	42.99	152	36.124	88	59.66	31	18.780	82	47.00	58	31.082	191	35.50	201
30	31.486	131	44.51	135	36.036	102	59.97	9	18.698	96	47.58	64	30.891	219	37.51	159
Mai 10	31.355	141	45.86	113	35.934	110	60.06	$\overline{12}$	18.602	104	48.22	68	30.672	240	39.10	115
20	31.214	144	46.99	90	35.824	115	59.94	33	18.498	106	48.90	68	30.432	255	40.25	69
30	31.070	142	47.89	62	35.709	114	59.61	51	18.392	107	49.58	68	30.177	263	40.94	22
Juni 9	30.928	135	48.51	34	35.595	112	59.10	68	18.285	102	50.26	64	29.914	265	41.16	$\overline{25}$
19	30.793	125	48.85	5	35.483	106	58.42	84	18.183	96	50.90	60	29.649	260	40.91	71
29	30.668	111	48.90	$\overline{25}$	35.377	98	57.58	97	18.087	85	51.50	53	29.389	248	40.20	115
Juli 9	30.557	93	48.65	54	35.279	85	56.61	106	18.002	74	52.03	45	29.141	228	39.05	156
19	30.464	72	48.11	82	35.194	70	55.55	114	17.928	59	52.48	35	28.913	202	37.49	192
29	30.392	50	47.29	109	35.124	52	54.41	116	17.869	40	52.83	23	28.711	167	35.57	223
Aug. 8	30.342	23	46.20	136	35.072	30	53.25	114	17.829	21	53.06	9	28.544	124	33.34	245
18	30.319	$\overline{7}$	44.84	160	35.042	5	52.11	107	17.808	$\overline{4}$	53.15	$\overline{8}$	28.420	76	30.89	260
28	30.326	38	43.24	183	35.037	$\overline{26}$	51.04	94	17.812	32	53.07	26	28.344	19	28.29	265
Sept. 7	30.364	75	41.41	203	35.063	59	50.10	77	17.844	62	52.81	48	28.325	$\overline{42}$	25.64	260
17	30.439	113	39.38	221	35.122	95	49.33	54	17.906	97	52.33	71	28.367	108	23.04	245
27	30.552	155	37.17	236	35.217	135	48.79	26	18.003	133	51.62	94	28.475	176	20.59	220
Okt. 7	30.707	197	34.81	247	35.352	175	48.53	$\overline{7}$	18.136	172	50.68	119	28.651	243	18.39	184
17	30.904	239	32.34	254	35.527	214	48.60	42	18.308	210	49.49	144	28.894	307	16.55	139
27	31.143	281	29.80	255	35.741	252	49.02	78	18.518	246	48.05	167	29.201	365	15.16	89
Nov. 6	31.424	318	27.25	249	35.993	285	49.80	114	18.764	279	46.38	185	29.566	412	14.27	$\overline{32}$
16	31.742	348	24.76	237	36.278	312	50.94	150	19.043	306	44.53	200	29.978	449	13.95	28
26	32.090	371	22.39	218	36.590	329	52.44	179	19.349	325	42.53	210	30.427	471	14.23	87
Dez. 6	32.461	383	20.21	192	36.919	338	54.23	205	19.674	335	40.43	212	30.898	477	15.10	145
16	32.844	385	18.29	159	37.257	334	56.28	225	20.009	335	38.31	209	31.375	468	16.55	199
26	33.229	373	16.70	122	37.591	322	58.53	236	20.344	323	36.22	198	31.843	443	18.54	247
36	33.602		15.48		37.913		60.89		20.667		34.24		32.286		21.01	
Mittl. Ort	30.741		40.82		35.299		50.33		18.020		51.80		29.473		21.49	
sec δ, tg δ	1.198		+0.659		1.033		−0.258		1.006		+0.111		1.709		−1.386	
a, *a′*	+3.2		−19.7		+3.0		−19.7		+3.1		−19.7		+2.7		−19.7	
b, *b′*	−0.04		−0.19		+0.02		−0.19		−0.01		−0.18		+0.09		−0.18	

*) Bei Stern 427) und 428) lies März 12.

Scheinbare Sternörter 1945

Tag	429) Grb 1771 U Maj				433) λ Draconis				434) ξ Hydrae				436) λ Centauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	11h 19m		+64° 37′		11h 28m		+69° 37′		11h 30m		−31° 32′		11h 33m		−62° 42′	
	s		″		s		″		s		″		s		″	
Jan. 1	35.71	61	41.85	13	9.16	74	52.51	17	17.176	334	56.01	257	14.38	52	32.26	249
11	36.32	57	41.98	72	9.90	68	52.68	79	17.510	303	58.58	274	14.90	47	34.75	291
21	36.89	50	42.70	127	10.58	61	53.47	135	17.813	264	61.32	283	15.37	40	37.66	324
31	37.39	41	43.97	177	11.19	51	54.82	187	18.077	219	64.15	284	15.77	32	40.90	348
Febr. 10	37.80	32	45.74	218	11.70	40	56.69	230	18.296	171	66.99	279	16.09	25	44.38	362
20	38.12	22	47.92	250	12.10	28	58.99	263	18.467	122	69.78	266	16.34	16	48.00	368
März 2	38.34	12	50.42	271	12.38	16	61.62	284	18.589	75	72.44	249	16.50	9	51.68	364
12	38.46	2	53.13	281	12.54	3	64.46	293	18.664	30	74.93	228	16.59	1	55.32	353
21	12 38.48	$\overline{8}$	55.94	277	14 12.57	$\overline{8}$	67.39	290	15 18.694	$\overline{9}$	77.21	203	16 16.60	$\overline{6}$	58.85	335
31	38.40	16	58.71	264	12.49	19	70.29	276	18.685	45	79.24	175	16.54	13	62.20	310
Apr. 10	38.24	23	61.35	240	12.30	28	73.05	252	18.640	74	80.99	146	16.41	19	65.30	278
20	38.01	28	63.75	209	12.02	36	75.57	218	18.566	97	82.45	114	16.22	23	68.08	243
30	37.73	33	65.84	169	11.66	41	77.75	177	18.469	116	83.59	83	15.99	28	70.51	201
Mai 10	37.40	36	67.53	124	11.25	45	79.52	130	18.353	129	84.42	51	15.71	31	72.52	157
20	37.04	36	68.77	77	10.80	47	80.82	81	18.224	138	84.93	$\overline{17}$	15.40	34	74.09	110
30	36.68	37	69.54	27	10.33	48	81.63	28	18.086	144	85.10	15	15.06	36	75.19	60
Juni 9	36.31	36	69.81	$\overline{23}$	9.85	47	81.91	$\overline{24}$	17.942	144	84.95	47	14.70	36	75.79	$\overline{9}$
19	35.95	34	69.58	73	9.38	44	81.67	76	17.798	141	84.48	77	14.34	36	75.88	41
29	35.61	30	68.85	120	8.94	41	80.91	126	17.657	135	83.71	105	13.98	36	75.47	90
Juli 9	35.31	26	67.65	164	8.53	36	79.65	173	17.522	124	82.66	130	13.62	33	74.57	137
19	35.05	22	66.01	206	8.17	31	77.92	215	17.398	110	81.36	151	13.29	30	73.20	179
29	34.83	16	63.95	242	7.86	24	75.77	254	17.288	89	79.85	167	12.99	26	71.41	216
Aug. 8	34.67	11	61.53	273	7.62	18	73.23	286	17.199	65	78.18	178	12.73	21	69.25	246
18	34.56	5	58.80	301	7.44	9	70.37	314	17.134	35	76.40	181	12.52	15	66.79	268
28	34.51	$\overline{2}$	55.79	321	7.35	$\overline{2}$	67.23	336	17.099	$\overline{1}$	74.59	177	12.37	$\overline{7}$	64.11	280
Sept. 7	34.53	9	52.58	336	7.33	8	63.87	351	17.098	39	72.82	167	12.30	1	61.31	282
17	34.62	17	49.22	345	7.41	16	60.36	359	17.137	82	71.15	147	12.31	9	58.49	273
27	34.79	24	45.77	346	7.57	26	56.77	359	17.219	128	69.68	120	12.40	18	55.76	253
Okt. 7	35.03	32	42.31	340	7.83	35	53.18	353	17.347	175	68.48	87	12.58	26	53.23	222
17	35.35	39	38.91	327	8.18	45	49.65	338	17.522	222	67.61	48	12.84	35	51.01	182
27	35.74	47	35.64	305	8.63	53	46.27	315	17.744	266	67.13	$\overline{3}$	13.19	43	49.19	132
Nov. 6	36.21	53	32.59	276	9.16	61	43.12	283	18.010	304	67.10	43	13.62	49	47.87	76
16	36.74	58	29.83	238	9.77	68	40.29	244	18.314	335	67.53	90	14.11	53	47.11	16
26	37.32	62	27.45	193	10.45	74	37.85	197	18.649	355	68.43	136	14.64	57	46.95	$\overline{47}$
Dez. 6	37.94	65	25.52	142	11.19	76	35.88	143	19.004	366	69.79	178	15.21	58	47.42	108
16	38.59	66	24.10	86	11.95	78	34.45	85	19.370	365	71.57	215	15.79	58	48.50	167
26	39.25	63	23.24	27	12.73	76	33.60	24	19.735	350	73.72	244	16.37	54	50.17	222
36	39.88		22.97		13.49		33.36		20.085		76.16		16.91		52.39	
Mittl. Ort	36.25		54.22		9.72		65.47		17.510		70.81		13.99		54.89	
sec δ, tg δ	2.334		+2.109		2.874		+2.694		1.173		−0.614		2.181		−1.939	
a, *a′*	+3.6		−19.7		+3.6		−19.9		+3.0		−19.9		+2.8		−19.9	
b, *b′*	−0.14		− 0.18		−0.18		− 0.14		+0.04		− 0.13		+0.13		− 0.12	

Tag		437) υ Leonis AR.		437) υ Leonis Dekl.		440) 3 Draconis AR.		440) 3 Draconis Dekl.		441) χ Ursae maj. AR.		441) χ Ursae maj. Dekl.		444) β Leonis AR.		444) β Leonis Dekl.	
1945		11h 34m		−0° 31′		11h 39m		+67° 2′		11h 43m		+48° 4′		11h 46m		+14° 52′	
		s		″		s		″		s		″		s		″	
Jan.	1	7.300	311	7.13	207	24.62	67	45.12	6	8.412	435	54.30	71	14.584	326	45.97	173
	11	7.611	286	9.20	194	25.29	63	45.06	$\overline{56}$	8.847	407	53.59	17	14.910	304	44.24	145
	21	7.897	254	11.14	174	25.92	57	45.62	114	9.254	366	53.42	$\overline{37}$	15.214	272	42.79	112
	31	8.151	214	12.88	152	26.49	48	46.76	167	9.620	315	53.79	87	15.486	234	41.67	78
Febr.	10	8.365	171	14.40	127	26.97	39	48.43	213	9.935	255	54.66	133	15.720	191	40.89	44
	20	8.536	128	15.67	99	27.36	28	50.56	249	10.190	191	55.99	171	15.911	145	40.45	10
März	2	8.664	84	16.66	73	27.64	18	53.05	274	10.381	125	57.70	202	16.056	100	40.35	$\overline{19}$
	12	16 8.748	43	17.39	47	17 27.82	6	55.79	287	18 10.506	62	59.72	222	19 16.156	58	40.54	46
	21	8.791	8	17.86	25	27.88	$\overline{5}$	58.66	289	10.568	2	61.94	232	16.214	18	41.00	67
	31	8.799	$\overline{24}$	18.11	$\overline{3}$	27.83	13	61.55	278	10.570	$\overline{52}$	64.26	232	16.232	$\overline{16}$	41.67	83
Apr.	10	8.775	50	18.14	14	27.70	22	64.33	257	10.518	98	66.58	222	16.216	44	42.50	93
	20	8.725	70	18.00	29	27.48	30	66.90	227	10.420	135	68.80	205	16.172	67	43.43	98
	30	8.655	85	17.71	41	27.18	34	69.17	189	10.285	164	70.85	180	16.105	85	44.41	99
Mai	10	8.570	95	17.30	51	26.84	39	71.06	146	10.121	183	72.65	149	16.020	97	45.40	95
	20	8.475	101	16.79	58	26.45	40	72.52	97	9.938	196	74.14	113	15.923	105	46.35	88
	30	8.374	103	16.21	63	26.05	42	73.49	47	9.742	201	75.27	74	15.818	108	47.23	79
Juni	9	8.271	103	15.58	66	25.63	41	73.96	$\overline{5}$	9.541	199	76.01	34	15.710	108	48.02	66
	19	8.168	98	14.92	68	25.22	39	73.91	57	9.342	191	76.35	$\overline{7}$	15.602	106	48.68	52
	29	8.070	92	14.24	67	24.83	37	73.34	106	9.151	178	76.28	49	15.496	99	49.20	37
Juli	9	7.978	83	13.57	65	24.46	33	72.28	153	8.973	160	75.79	89	15.397	91	49.57	21
	19	7.895	70	12.92	60	24.13	29	70.75	198	8.813	138	74.90	128	15.306	79	49.78	2
	29	7.825	55	12.32	52	23.84	23	68.77	237	8.675	112	73.62	163	15.227	64	49.80	$\overline{16}$
Aug.	8	7.770	35	11.80	42	23.61	18	66.40	272	8.563	80	71.99	197	15.163	45	49.64	36
	18	7.735	13	11.38	29	23.43	11	63.68	302	8.483	45	70.02	227	15.118	23	49.28	57
	28	7.722	$\overline{15}$	11.09	12	23.32	$\overline{3}$	60.66	326	8.438	6	67.75	253	15.095	$\overline{4}$	48.71	78
Sept.	7	7.737	45	10.97	$\overline{7}$	23.29	4	57.40	344	8.432	$\overline{38}$	65.22	276	15.099	34	47.93	101
	17	7.782	79	11.04	30	23.33	12	53.96	355	8.470	86	62.46	294	15.133	69	46.92	124
	27	7.861	117	11.34	56	23.45	20	50.41	359	8.556	137	59.52	306	15.202	107	45.68	147
Okt.	7	7.978	157	11.90	83	23.65	29	46.82	355	8.693	190	56.46	312	15.309	147	44.21	169
	17	8.135	196	12.73	111	23.94	38	43.27	344	8.883	243	53.34	313	15.456	187	42.52	188
	27	8.331	234	13.84	137	24.32	46	39.83	325	9.126	296	50.21	306	15.643	228	40.64	206
Nov.	6	8.565	269	15.21	163	24.78	53	36.58	297	9.422	345	47.15	292	15.871	265	38.58	218
	16	8.834	298	16.84	185	25.31	60	33.61	260	9.767	388	44.23	269	16.136	297	36.40	226
	26	9.132	319	18.69	202	25.91	66	31.01	215	10.155	422	41.54	239	16.433	323	34.14	228
Dez.	6	9.451	332	20.71	213	26.57	68	28.86	165	10.577	445	39.15	200	16.756	338	31.86	222
	16	9.783	334	22.84	216	27.25	70	27.21	107	11.022	454	37.15	156	17.094	343	29.64	209
	26	10.117	325	25.00	215	27.95	70	26.14	46	11.476	449	35.59	106	17.437	338	27.55	190
	36	10.442		27.15		28.65		25.68		11.925		34.53		17.775		25.65	
Mittl. Ort		7.895		11.74		25.33		57.87		9.188		63.97		15.308		46.38	
sec δ, tg δ		1.000		−0.009		2.565		+2.362		1.497		+1.114		1.035		+0.266	
a, *a′*		+3.1		−19.9		+3.4		−20.0		+3.2		−20.0		+3.1		−20.0	
b, *b′*		0.00		−0.11		−0.16		−0.09		−0.07		−0.07		−0.02		−0.06	

Tag	445) β Virginis[1]		447) γ Ursae maj.		450) ο Virginis		452) δ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1945	$11^h\ 47^m$	$+2°\ 4'$	$11^h\ 50^m$	$+53°\ 59'$	$12^h\ 2^m$	$+9°\ 1'$	$12^h\ 5^m$	$-50°\ 24'$
	s	″	s	″	s	″	s	″
Jan. 1	49.081 318	32.93 203	55.946 485	51.24 61	23.635 324	80.16 192	29.492 430	36.91 227
11	49.399 295	30.90 188	56.431 456	50.63 4	23.959 305	78.24 169	29.922 399	39.18 264
21	49.694 264	29.02 166	56.887 414	50.59 $\overline{53}$	24.264 277	76.55 142	30.321 357	41.82 293
31	49.958 227	27.36 142	57.301 358	51.12 106	24.541 241	75.13 112	30.678 308	44.75 313
Febr. 10	50.185 185	25.94 115	57.659 293	52.18 154	24.782 201	74.01 79	30.986 251	47.88 324
20	50.370 142	24.79 86	57.952 223	53.72 194	24.983 158	73.22 48	31.237 194	51.12 329
März 2	50.512 99	23.93 58	58.175 149	55.66 224	25.141 115	72.74 17	31.431 136	54.41 325
12	50.611 59	23.35 33	58.324 77	57.90 245	25.256 73	72.57 $\overline{10}$	31.567 79	57.66 314
21*)	19 50.670 21	23.02 9	20 58.401 8	60.35 255	23 25.329 36	72.67 33	24 31.646 26	60.80 298
31	50.691 $\overline{11}$	22.93 $\overline{11}$	58.409 $\overline{55}$	62.90 253	25.365 $\overline{2}$	73.00 52	31.672 $\overline{22}$	63.78 275
Apr. 10	50.680 37	23.04 28	58.354 109	65.43 242	25.367 27	73.52 66	31.650 65	66.53 249
20	50.643 59	23.32 42	58.245 154	67.85 222	25.340 51	74.18 76	31.585 104	69.02 218
30	50.584 76	23.74 51	58.091 190	70.07 193	25.289 69	74.94 82	31.481 137	71.20 183
Mai 10	50.508 87	24.25 59	57.901 215	72.00 159	25.220 83	75.76 83	31.344 166	73.03 145
20	50.421 95	24.84 63	57.686 233	73.59 120	25.137 93	76.59 81	31.178 188	74.48 105
30	50.326 100	25.47 65	57.453 240	74.79 77	25.044 100	77.40 78	30.990 207	75.53 63
Juni 9	50.226 100	26.12 66	57.213 240	75.56 32	24.944 104	78.18 70	30.783 219	76.16 20
19	50.126 99	26.78 64	56.973 233	75.88 $\overline{13}$	24.840 103	78.88 62	30.564 227	76.36 $\overline{24}$
29	50.027 94	27.42 61	56.740 220	75.75 58	24.737 100	79.50 51	30.337 227	76.12 66
Juli 9	49.933 86	28.03 55	56.520 201	75.17 102	24.637 95	80.01 40	30.110 222	75.46 106
19	49.847 75	28.58 48	56.319 176	74.15 143	24.542 85	80.41 25	29.888 208	74.40 144
29	49.772 62	29.06 38	56.143 146	72.72 182	24.457 74	80.66 11	29.680 188	72.96 176
Aug. 8	49.710 43	29.44 27	55.997 111	70.90 218	24.383 57	80.77 $\overline{6}$	29.492 158	71.20 204
18	49.667 22	29.71 11	55.886 71	68.72 250	24.326 37	80.71 24	29.334 121	69.16 224
28	49.645 $\overline{4}$	29.82 $\overline{5}$	55.815 26	66.22 277	24.289 12	80.47 45	29.213 76	66.92 236
Sept. 7	49.649 34	29.77 26	55.789 22	63.45 300	24.277 18	80.02 67	29.137 23	64.56 239
17	49.683 69	29.51 48	55.811 77	60.45 316	24.295 52	79.35 89	29.114 $\overline{36}$	62.17 232
27	49.752 106	29.03 73	55.888 134	57.29 329	24.347 89	78.46 114	29.150 100	59.85 216
Okt. 7	49.858 146	28.30 99	56.022 194	54.00 334	24.436 129	77.32 137	29.250 166	57.69 189
17	50.004 186	27.31 126	56.216 255	50.66 331	24.565 171	75.95 161	29.416 232	55.80 154
27	50.190 226	26.05 151	56.471 315	47.35 322	24.736 213	74.34 183	29.648 294	54.26 111
Nov. 6	50.416 262	24.54 174	56.786 370	44.13 304	24.949 251	72.51 200	29.942 349	53.15 62
16	50.678 294	22.80 193	57.156 419	41.09 278	25.200 285	70.51 214	30.291 396	52.53 8
26	50.972 317	20.87 208	57.575 459	38.31 244	25.485 311	68.37 222	30.687 430	52.45 $\overline{48}$
Dez. 6	51.289 332	18.79 216	58.034 487	35.87 201	25.796 330	66.15 223	31.117 450	52.93 102
16	51.621 336	16.63 217	58.521 501	33.86 153	26.126 338	63.92 218	31.567 456	53.95 155
26	51.957 331	14.46 213	59.022 498	32.33 98	26.464 336	61.74 205	32.023 446	55.50 203
36	52.288	12.33	59.520	31.35	26.800	59.69	32.469	57.53
Mittl. Ort	49.760	29.02	56.780	62.08	24.428	78.42	29.896	57.95
sec δ, tg δ	1.001	+0.036	1.701	+1.376	1.013	+0.159	1.569	−1.210
a, *a′*	+3.1	−20.0	+3.1	−20.0	+3.1	−20.0	+3.1	−20.0
b, *b′*	0.00	− 0.05	−0.09	− 0.04	−0.01	+ 0.01	+0.08	+ 0.02

[1]) Die jährliche Parallaxe (0.″101) ist bereits berücksichtigt.

*) Bei Stern 450) und 452) lies März 22.

Tag	453) ε Corvi AR.		Dekl.		454) Br 1634 Caml AR.		Dekl.	
1945	12h 7m		−22° 18′		12h 9m		+77° 54′	
	s		"		s		"	
Jan. 1	16.808	335	37.32	231	37.61	179	64.64	17
11	17.143	313	39.63	242	38.80	114	64.47	$\overline{48}$
21	17.456	283	42.05	246	39.94	105	64.95	111
31	17.739	246	44.51	242	40.99	93	66.06	169
Febr. 10	17.985	204	46.93	232	41.92	77	67.75	219
20	18.189	161	49.25	218	42.69	60	69.94	259
März 2	18.350	118	51.43	200	43.29	40	72.53	289
12	18.468	77	53.43	180	43.69	20	75.42	306
22	[24] 18.545	39	55.23	156	[25] 43.89	1	78.48	310
31	18.584	4	56.79	132	43.90	$\overline{19}$	81.58	302
Apr. 10	18.588	$\overline{25}$	58.11	108	43.71	35	84.60	283
20	18.563	50	59.19	83	43.36	51	87.43	253
30	18.513	71	60.02	58	42.85	64	89.96	215
Mai 10	18.442	88	60.60	34	42.21	73	92.11	170
20	18.354	100	60.94	9	41.48	81	93.81	119
30	18.254	111	61.03	$\overline{13}$	40.67	85	95.00	66
Juni 9	18.143	117	60.90	37	39.82	87	95.66	10
19	18.026	120	60.53	58	38.95	87	95.76	$\overline{45}$
29	17.906	121	59.95	77	38.08	83	95.31	99
Juli 9	17.785	117	59.18	95	37.25	78	94.32	151
19	17.668	108	58.23	109	36.47	71	92.81	199
29	17.560	97	57.14	120	35.76	62	90.82	244
Aug. 8	17.463	80	55.94	127	35.14	52	88.38	282
18	17.383	57	54.67	128	34.62	40	85.56	316
28	17.326	29	53.39	124	34.22	27	82.40	343
Sept. 7	17.297	$\overline{5}$	52.15	113	33.95	13	78.97	364
17	17.302	43	51.02	97	33.82	$\overline{2}$	75.33	377
27	17.345	85	50.05	74	33.84	17	71.56	382
Okt. 7	17.430	131	49.31	46	34.01	34	67.74	381
17	17.561	177	48.85	12	34.35	49	63.93	369
27	17.738	222	48.73	$\overline{25}$	34.84	65	60.24	349
Nov. 6	17.960	263	48.98	63	35.49	80	56.75	321
16	18.223	299	49.61	102	36.29	93	53.54	283
26	18.522	327	50.63	139	37.22	105	50.71	237
Dez. 6	18.849	344	52.02	172	38.27	113	48.34	183
16	19.193	351	53.74	201	39.40	118	46.51	124
26	19.544	346	55.75	223	40.58	120	45.27	60
36	19.890		57.98		41.78		44.67	
Mittl. Ort	17.494		50.07		38.75		78.29	
sec δ, tg δ	1.081		−0.410		4.779		+4.673	
a, *a′*	+3.1		−20.0		+2.8		−20.0	
b, *b′*	+0.03		+ 0.03		−0.31		+ 0.04	

Tag	456) δ Ursae maj. AR.		Dekl.		459) β Chamael. AR.		Dekl.	
1945	12h 12m		+57° 19′		12h 14m		−78° 59′	
	s		"		s		"	
Jan. 1	41.716	523	65.60	79	65.38	120	58.60	171
11	42.239	501	64.81	18	66.58	111	60.31	226
21	42.740	462	64.63	$\overline{42}$	67.69	100	62.57	273
31	43.202	409	65.05	99	68.69	86	65.30	313
Febr. 10	43.611	345	66.04	150	69.55	70	68.43	344
20	43.956	272	67.54	195	70.25	53	71.87	366
März 2	44.228	194	69.49	230	70.78	36	75.53	379
12	44.422	117	71.79	254	71.14	19	79.32	383
22	[26] 44.539	41	74.33	267	[26] 71.33	1	83.15	379
31	44.580	$\overline{29}$	77.00	269	71.34	$\overline{15}$	86.94	367
Apr. 10	44.551	92	79.69	261	71.19	31	90.61	347
20	44.459	146	82.30	242	70.88	47	94.08	320
30	44.313	191	84.72	215	70.41	59	97.28	287
Mai 10	44.122	225	86.87	181	69.82	72	100.15	248
20	43.897	250	88.68	141	69.10	82	102.63	203
30	43.647	266	90.09	97	68.28	90	104.66	154
Juni 9	43.381	273	91.06	51	67.38	97	106.20	102
19	43.108	271	91.57	4	66.41	100	107.22	48
29	42.837	263	91.61	$\overline{44}$	65.41	101	107.70	$\overline{8}$
Juli 9	42.574	248	91.17	91	64.40	100	107.62	62
19	42.326	225	90.26	136	63.40	94	107.00	116
29	42.101	197	88.90	179	62.46	87	105.84	166
Aug. 8	41.904	162	87.11	217	61.59	76	104.18	210
18	41.742	122	84.94	252	60.83	62	102.08	247
28	41.620	75	82.42	283	60.21	46	99.61	277
Sept. 7	41.545	23	79.59	309	59.75	27	96.84	295
17	41.522	$\overline{34}$	76.50	329	59.48	6	93.89	304
27	41.556	97	73.21	343	59.42	$\overline{15}$	90.85	300
Okt. 7	41.653	163	69.78	349	59.57	37	87.85	285
17	41.816	230	66.29	350	59.94	58	85.00	257
27	42.046	297	62.79	342	60.52	77	82.43	218
Nov. 6	42.343	362	59.37	325	61.29	94	80.25	171
16	42.705	420	56.12	299	62.23	109	78.54	115
26	43.125	468	53.13	265	63.32	118	77.39	54
Dez. 6	43.593	505	50.48	222	64.50	124	76.85	$\overline{10}$
16	44.098	527	48.26	173	65.74	126	76.95	74
26	44.625	532	46.53	117	67.00	124	77.69	136
36	45.157		45.36		68.24		79.05	
Mittl. Ort	42.725		76.96		64.59		84.80	
sec δ, tg δ	1.853		+1.560		5.244		−5.148	
a, *a′*	+3.0		−20.0		+3.5		−20.0	
b, *b′*	−0.10		+ 0.06		+0.34		+ 0.07	

Scheinbare Sternörter 1945

Tag	460) η Virginis AR.		460) η Virginis Dekl.		462) α Crucis m AR.		462) α Crucis m Dekl.		466) 20 Comae AR.		466) 20 Comae Dekl.		465) δ Corvi AR.		465) δ Corvi Dekl.	
1945	$12^h\ 17^m$		−0° 21′		$12^h\ 23^m$		−62° 47′		$12^h\ 26^m$		+21° 11′		$12^h\ 27^m$		−16° 12′	
	s		″		s		″		s		″		s		″	
Jan. 1	4.569	324	35.40	210	31.25	57	16.60	191	56.535	345	59.65	180	0.011	333	22.99	222
11	4.893	306	37.50	197	31.82	53	18.51	238	56.880	330	57.85	145	0.344	315	25.21	226
21	5.199	280	39.47	179	32.35	49	20.89	279	57.210	305	56.40	106	0.659	290	27.47	224
31	5.479	247	41.26	157	32.84	43	23.68	309	57.515	272	55.34	65	0.949	257	29.71	216
Febr. 10	5.726	209	42.83	130	33.27	35	26.77	333	57.787	233	54.69	25	1.206	218	31.87	203
20	5.935	169	44.13	103	33.62	28	30.10	348	58.020	190	54.44	14	1.424	179	33.90	187
März 2	6.104	127	45.16	75	33.90	21	33.58	354	58.210	146	54.58	49	1.603	138	35.77	166
12	6.231	87	45.91	49	34.11	13	37.12	352	58.356	103	55.07	80	1.741	97	37.43	144
22	6.318	51	46.40	25	34.24	6	40.64	342	58.459	61	55.87	104	1.838	61	38.87	121
31	[27] 6.369	18	46.65	2	[28] 34.30	1	44.06	327	[29] 58.520	24	56.91	121	[29] 1.899	27	40.08	98
Apr. 10	6.387	11	46.67	16	34.29	8	47.33	305	58.544	9	58.12	133	1.926	2	41.06	76
20	6.376	35	46.51	31	34.21	13	50.38	277	58.535	38	59.45	138	1.924	29	41.82	55
30	6.341	56	46.20	43	34.08	19	53.15	243	58.497	61	60.83	135	1.895	50	42.37	33
Mai 10	6.285	71	45.77	52	33.89	23	55.58	206	58.436	80	62.18	129	1.845	68	42.70	14
20	6.214	83	45.25	58	33.66	28	57.64	163	58.356	94	63.47	117	1.777	83	42.84	4
30	6.131	92	44.67	63	33.38	30	59.27	119	58.262	105	64.64	102	1.694	95	42.80	22
Juni 9	6.039	98	44.04	65	33.08	34	60.46	70	58.157	112	65.66	84	1.599	104	42.58	39
19	5.941	102	43.39	65	32.74	35	61.16	22	58.045	115	66.50	62	1.495	111	42.19	53
29	5.839	102	42.74	63	32.39	36	61.38	27	57.930	116	67.12	41	1.384	113	41.66	67
Juli 9	5.737	98	42.11	59	32.03	36	61.11	76	57.814	112	67.53	16	1.271	113	40.99	79
19	5.639	93	41.52	54	31.67	34	60.35	123	57.702	107	67.69	8	1.158	109	40.20	87
29	5.546	83	40.98	47	31.33	32	59.12	164	57.595	96	67.61	33	1.049	100	39.33	94
Aug. 8	5.463	69	40.51	35	31.01	27	57.48	202	57.499	81	67.28	58	0.949	86	38.39	97
18	5.394	50	40.16	23	30.74	23	55.46	232	57.418	63	66.70	85	0.863	67	37.42	94
28	5.344	26	39.93	7	30.51	17	53.14	255	57.355	38	65.85	110	0.796	42	36.48	88
Sept. 7	5.318	2	39.86	11	30.34	9	50.59	268	57.317	8	64.75	136	0.754	13	35.60	77
17	5.320	36	39.97	34	30.25	1	47.91	271	57.309	25	63.39	161	0.741	24	34.83	60
27	5.356	74	40.31	57	30.24	8	45.20	263	57.334	64	61.78	185	0.765	64	34.23	38
Okt. 7	5.430	115	40.88	84	30.32	17	42.57	244	57.398	106	59.93	206	0.829	108	33.85	12
17	5.545	158	41.72	110	30.49	27	40.13	213	57.504	151	57.87	226	0.937	154	33.73	18
27	5.703	200	42.82	136	30.76	35	38.00	175	57.655	196	55.61	240	1.091	199	33.91	51
Nov. 6	5.903	240	44.18	162	31.11	43	36.25	127	57.851	239	53.21	251	1.290	242	34.42	85
16	6.143	275	45.80	184	31.54	50	34.98	72	58.090	278	50.70	255	1.532	279	35.27	119
26	6.418	304	47.64	201	32.04	55	34.26	15	58.368	310	48.15	253	1.811	310	36.46	150
Dez. 6	6.722	324	49.65	213	32.59	58	34.11	45	58.678	334	45.62	243	2.121	330	37.96	178
16	7.046	334	51.78	218	33.17	60	34.56	105	59.012	349	43.19	225	2.451	342	39.74	200
26	7.380	333	53.96	217	33.77	59	35.61	161	59.361	352	40.94	200	2.793	342	41.74	217
36	7.713		56.13		34.36		37.22		59.713		38.94		3.135		43.91	
Mittl. Ort	5.414		40.62		31.67		40.69		57.504		61.71		0.862		33.95	
sec δ, tg δ	1.000		−0.006		2.187		−1.945		1.073		+0.388		1.041		−0.291	
a, *a′*	+3.1		−20.0		+3.3		−19.9		+3.0		−19.9		+3.1		−19.9	
b, *b′*	0.00		+ 0.07		+0.13		+ 0.10		−0.03		+ 0.12		+0.02		+ 0.12	

Tag	470) β Canum ven.[1]				472) κ Draconis				471) β Corvi				473) 24 Comae sq			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$12^h\ 31^m$		$+41°\ 38'$		$12^h\ 31^m$		$+70°\ 4'$		$12^h\ 31^m$		$-23°\ 5'$		$12^h\ 32^m$		$+18°\ 40'$	
	s		"		s		"		s		"		s		"	
Jan. 1	6.992	404	74.00	137	7.43	77	75.25	69	28.732	344	20.68	220	21.273	341	45.35	187
11	7.396	390	72.63	86	8.20	74	74.56	3	29.076	326	22.88	232	21.614	327	43.48	154
21	7.786	363	71.77	32	8.94	71	74.53	$\overline{61}$	29.402	300	25.20	238	21.941	304	41.94	118
31	8.149	325	71.45	$\overline{21}$	9.65	63	75.14	122	29.702	267	27.58	236	22.245	272	40.76	79
Febr. 10	8.474	280	71.66	72	10.28	55	76.36	177	29.969	228	29.94	230	22.517	234	39.97	40
20	8.754	228	72.38	118	10.83	44	78.13	223	30.197	187	32.24	218	22.751	193	39.57	1
März 2	8.982	173	73.56	157	11.27	32	80.36	261	30.384	145	34.42	201	22.944	149	39.56	$\overline{34}$
12	9.155	118	75.13	188	11.59	20	82.97	286	30.529	105	36.43	183	23.093	107	39.90	64
22	9.273	65	77.01	210	11.79	8	85.83	299	30.634	66	38.26	161	23.200	67	40.54	90
31	^{30}9.338	$\underline{15}$	79.11	221	^{30}11.87	$\overline{3}$	88.82	299	^{30}30.700	32	39.87	138	^{31}23.267	$\underline{30}$	41.44	109
Apr. 10	9.353	29	81.32	223	11.84	14	91.81	290	30.732	1	41.25	116	23.297	3	42.53	121
20	9.324	68	83.55	217	11.70	24	94.71	268	30.733	$\overline{27}$	42.41	93	23.294	30	43.74	128
30	9.256	100	85.72	202	11.46	32	97.39	237	30.706	50	43.34	68	23.264	54	45.02	128
Mai 10	9.156	125	87.74	180	11.14	39	99.76	198	30.656	70	44.02	46	23.210	74	46.30	123
20	9.031	146	89.54	153	10.75	43	101.74	154	30.586	86	44.48	22	23.136	88	47.53	114
30	8.885	159	91.07	121	10.32	48	103.28	105	30.500	101	44.70	0	23.048	99	48.67	101
Juni 9	8.726	169	92.28	85	9.84	49	104.33	53	30.399	111	44.70	23	22.949	107	49.68	85
19	8.557	172	93.13	47	9.35	50	104.86	0	30.288	119	44.47	43	22.842	112	50.53	67
29	8.385	171	93.60	8	8.85	49	104.86	53	30.169	123	44.04	64	22.730	114	51.20	46
Juli 9	8.214	166	93.68	$\overline{31}$	8.36	48	104.33	106	30.046	124	43.40	81	22.616	112	51.66	24
19	8.048	155	93.37	71	7.88	44	103.27	155	29.922	120	42.59	97	22.504	106	51.90	2
29	7.893	140	92.66	108	7.44	39	101.72	202	29.802	111	41.62	110	22.398	98	51.92	$\overline{22}$
Aug. 8	7.753	121	91.58	145	7.05	35	99.70	244	29.691	98	40.52	117	22.300	83	51.70	46
18	7.632	95	90.13	180	6.70	28	97.26	282	29.593	78	39.35	122	22.217	66	51.24	71
28	7.537	65	88.33	211	6.42	21	94.44	314	29.515	52	38.13	120	22.151	42	50.53	96
Sept. 7	7.472	29	86.22	240	6.21	13	91.30	341	29.463	20	36.93	112	22.109	14	49.57	121
17	7.443	$\overline{13}$	83.82	265	6.08	4	87.89	361	29.443	$\overline{18}$	35.81	99	22.095	20	48.36	146
27	7.456	58	81.17	286	6.04	$\overline{6}$	84.28	374	29.461	60	34.82	79	22.115	58	46.90	170
Okt. 7	7.514	109	78.31	302	6.10	16	80.54	379	29.521	106	34.03	54	22.173	100	45.20	193
17	7.623	162	75.29	313	6.26	26	76.75	377	29.627	155	33.49	$\underline{23}$	22.273	144	43.27	214
27	7.785	214	72.16	316	6.52	37	72.98	364	29.782	202	33.26	12	22.417	189	41.13	230
Nov. 6	7.999	266	69.00	311	6.89	47	69.34	343	29.984	247	33.38	48	22.606	232	38.83	243
16	8.265	313	65.89	300	7.36	57	65.91	314	30.231	286	33.86	87	22.838	271	36.40	249
26	8.578	353	62.89	280	7.93	64	62.77	274	30.517	318	34.73	124	23.109	305	33.91	249
Dez. 6	8.931	384	60.09	251	8.57	71	60.03	226	30.835	340	35.97	157	23.414	329	31.42	243
16	9.315	403	57.58	214	9.28	75	57.77	171	31.175	352	37.54	187	23.743	343	28.99	228
26	9.718	411	55.44	170	10.03	77	56.06	111	31.527	353	39.41	210	24.086	348	26.71	205
36	10.129		53.74		10.80		54.95		31.880		41.51		24.434		24.66	
Mittl. Ort	8.048		81.96		8.74		88.20		29.589		34.06		22.264		46.53	
sec δ, tg δ	1.338		+0.890		2.937		+2.761		1.087		−0.426		1.056		+0.338	
a, *a′*	+2.9		−19.9		+2.6		−19.9		+3.2		−19.9		+3.0		−19.8	
b, *b′*	−0.06		+0.14		−0.18		+ 0.14		+0.03		+ 0.14		−0.02		+ 0.14	

[1]) Die jährliche Parallaxe (0.″107) ist bereits berücksichtigt.

Scheinbare Sternörter 1945

Tag	474) α Muscae AR.		Dekl.		1325) 133 G. Centauri AR.		Dekl.		478) 76 Ursae maj. AR.		Dekl.		481) β Crucis AR.		Dekl.	
1945	$12^h\ 33^m$		$-68°49'$		$12^h\ 38^m$		$-45°50'$		$12^h\ 39^m$		$+63°0'$		$12^h\ 44^m$		$-59°22'$	
	s		"		s		"		s		"		s		"	
Jan. 1	52.36	71	32.23	167	20.211	419	20.79	199	8.85	60	40.84	97	28.714	537	54.25	171
11	53.07	66	33.90	219	20.630	399	22.78	234	9.45	59	39.87	35	29.251	512	55.96	218
21	53.73	61	36.09	263	21.029	367	25.12	261	10.04	56	39.52	29	29.763	473	58.14	257
31	54.34	54	38.72	301	21.396	326	27.73	283	10.60	50	39.81	91	30.236	423	60.71	290
Febr. 10	54.88	46	41.73	329	21.722	281	30.56	295	11.10	44	40.72	147	30.659	365	63.61	313
20	55.34	36	45.02	349	22.003	231	33.51	300	11.54	36	42.19	196	31.024	301	66.74	328
März 2	55.70	28	48.51	360	22.234	179	36.51	299	11.90	27	44.15	236	31.325	235	70.02	337
12	55.98	18	52.11	363	22.413	129	39.50	292	12.17	18	46.51	265	31.560	169	73.39	337
22	56.16	9	55.74	359	22.542	81	42.42	278	12.35	9	49.16	282	31.729	104	76.76	331
31*)	56.25	1	59.33	348	22.623	35	45.20	260	12.44	1	51.98	289	31.833	41	80.07	317
Apr. 10	56.26	8	62.81	328	22.658	6	47.80	237	12.45	8	54.87	283	31.874	17	83.24	298
20	56.18	16	66.09	302	22.652	44	50.17	212	12.37	14	57.70	266	31.857	71	86.22	274
30	56.02	23	69.11	272	22.608	78	52.29	182	12.23	21	60.36	241	31.786	122	88.96	243
Mai 10	55.79	30	71.83	235	22.530	108	54.11	149	12.02	26	62.77	208	31.664	167	91.39	210
20	55.49	35	74.18	193	22.422	135	55.60	115	11.76	29	64.85	167	31.497	208	93.49	171
30	55.14	40	76.11	148	22.287	157	56.75	78	11.47	33	66.52	122	31.289	243	95.20	129
Juni 9	54.74	44	77.59	99	22.130	175	57.53	40	11.14	34	67.74	74	31.046	273	96.49	85
19	54.30	47	78.58	49	21.955	189	57.93	1	10.80	35	68.48	23	30.773	293	97.34	38
29	53.83	48	79.07	3	21.766	198	57.94	37	10.45	35	68.71	27	30.480	308	97.72	8
Juli 9	53.35	48	79.04	55	21.568	200	57.57	75	10.10	34	68.44	78	30.172	313	97.64	55
19	52.87	47	78.49	105	21.368	197	56.82	110	9.76	32	67.66	127	29.859	307	97.09	99
29	52.40	44	77.44	151	21.171	184	55.72	142	9.44	29	66.39	173	29.552	292	96.10	142
Aug. 8	51.96	39	75.93	193	20.987	165	54.30	169	9.15	25	64.66	216	29.260	264	94.68	179
18	51.57	32	74.00	229	20.822	138	52.61	191	8.90	21	62.50	255	28.996	224	92.89	211
28	51.25	25	71.71	257	20.684	102	50.70	204	8.69	16	59.95	290	28.772	174	90.78	235
Sept. 7	51.00	16	69.14	275	20.582	57	48.66	212	8.53	10	57.05	319	28.598	111	88.43	250
17	50.84	5	66.39	284	20.525	5	46.54	210	8.43	4	53.86	342	28.487	40	85.93	256
27	50.79	6	63.55	280	20.520	52	44.44	198	8.39	4	50.44	359	28.447	40	83.37	252
Okt. 7	50.85	17	60.75	266	20.572	114	42.46	177	8.43	12	46.85	369	28.487	124	80.85	237
17	51.02	30	58.09	240	20.686	178	40.69	148	8.55	19	43.16	371	28.611	210	78.48	210
27	51.32	40	55.69	203	20.864	239	39.21	111	8.74	28	39.45	364	28.821	293	76.38	176
Nov. 6	51.72	51	53.66	158	21.103	296	38.10	68	9.02	36	35.81	348	29.114	369	74.62	132
16	52.23	59	52.08	106	21.399	347	37.42	19	9.38	44	32.33	324	29.483	436	73.30	81
26	52.82	66	51.02	47	21.746	387	37.23	31	9.82	49	29.09	289	29.919	489	72.49	27
Dez. 6	53.48	70	50.55	14	22.133	414	37.54	81	10.31	55	26.20	246	30.408	526	72.22	30
16	54.18	73	50.69	75	22.547	429	38.35	130	10.86	59	23.74	195	30.934	546	72.52	87
26	54.91	72	51.44	134	22.976	429	39.65	176	11.45	61	21.79	138	31.480	548	73.39	142
36	55.63		52.78		23.405		41.41		12.06		20.41		32.028		74.81	
Mittl. Ort	52.84		57.50		21.023		41.22		10.13		52.89		29.516		77.93	
sec δ, tg δ	2.769		−2.583		1.436		−1.030		2.204		+1.964		1.964		−1.690	
a, a'	+3.6		−19.8		+3.3		−19.8		+2.6		−19.8		+3.5		−19.7	
b, b'	+0.17		+ 0.15		+0.07		+ 0.17		−0.13		+ 0.17		+0.11		+ 0.19	

*) Bei Stern 1325), 478) und 481) lies April 1.

Tag		482) 150 G. Centauri				483) ε Ursae maj.				484) δ Virginis				486) 8 Draconis			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$12^h\ 50^m$		$-39°\ 52'$		$12^h\ 51^m$		$+56°\ 14'$		$12^h\ 52^m$		$+3°\ 41'$		$12^h\ 53^m$		$+65°\ 43'$	
		s		″		s		″		s		″		s		″	
Jan.	1	21.947	395	29.39	194	35.594	510	78.15	129	48.809	328	49.58	209	16.04	65	59.01	110
	11	22.342	379	31.33	225	36.104	501	76.86	69	49.137	318	47.49	193	16.69	64	57.91	45
	21	22.721	352	33.58	249	36.605	476	76.17	7	49.455	298	45.56	171	17.33	62	57.46	$\overline{19}$
	31	23.073	317	36.07	265	37.081	435	76.10	$\overline{54}$	49.753	271	43.85	145	17.95	56	57.65	83
Febr.	10	23.390	276	38.72	273	37.516	383	76.64	112	50.024	237	42.40	116	18.51	50	58.48	141
	20	23.666	231	41.45	276	37.899	320	77.76	163	50.261	199	41.24	84	19.01	41	59.89	193
März	2	23.897	185	44.21	273	38.219	251	79.39	206	50.460	162	40.40	55	19.42	32	61.82	235
	12	24.082	140	46.94	263	38.470	179	81.45	239	50.622	123	39.85	25	19.74	23	64.17	267
	22	24.222	96	49.57	249	38.649	107	83.84	262	50.745	86	39.60	$\overline{1}$	19.97	13	66.84	288
Apr.	1	24.318	54	52.06	231	38.756	37	86.46	273	50.831	52	39.61	23	20.10	3	69.72	295
		4				4				5				5			
	10	24.372	17	54.37	210	38.793	$\overline{28}$	89.19	273	50.883	22	39.84	41	20.13	$\overline{6}$	72.67	292
	20	24.389	$\overline{19}$	56.47	186	38.765	85	91.92	263	50.905	$\overline{5}$	40.25	55	20.07	14	75.59	278
	30	24.370	50	58.33	159	38.680	136	94.55	244	50.900	29	40.80	66	19.93	22	78.37	253
Mai	10	24.320	78	59.92	130	38.544	179	96.99	215	50.871	49	41.46	72	19.71	27	80.90	221
	20	24.242	103	61.22	99	38.365	212	99.14	180	50.822	65	42.18	75	19.44	32	83.11	181
	30	24.139	125	62.21	67	38.153	239	100.94	140	50.757	80	42.93	75	19.12	36	84.92	135
Juni	9	24.014	143	62.88	33	37.914	257	102.34	96	50.677	91	43.68	73	18.76	39	86.27	87
	19	23.871	158	63.21	$\overline{1}$	37.657	267	103.30	49	50.586	99	44.41	68	18.37	40	87.14	36
	29	23.713	167	63.20	34	37.390	270	103.79	1	50.487	106	45.09	62	17.97	40	87.50	$\overline{16}$
Juli	9	23.546	173	62.86	67	37.120	267	103.80	$\overline{47}$	50.381	108	45.71	53	17.57	40	87.34	68
	19	23.373	172	62.19	98	36.853	255	103.33	95	50.273	108	46.24	43	17.17	38	86.66	119
	29	23.201	165	61.21	125	36.598	237	102.38	141	50.165	102	46.67	32	16.79	35	85.47	166
Aug.	8	23.036	150	59.96	149	36.361	212	100.97	183	50.063	93	46.99	17	16.44	31	83.81	212
	18	22.886	127	58.47	166	36.149	180	99.14	224	49.970	79	47.16	2	16.13	27	81.69	253
	28	22.759	97	56.81	179	35.969	141	96.90	260	49.891	58	47.18	$\overline{16}$	15.86	22	79.16	289
Sept.	7	22.662	59	55.02	184	35.828	95	94.30	291	49.833	32	47.02	36	15.64	15	76.27	320
	17	22.603	14	53.18	181	35.733	41	91.39	319	49.801	0	46.66	58	15.49	8	73.07	345
	27	22.589	$\overline{38}$	51.37	169	35.692	$\overline{19}$	88.20	339	49.801	36	46.08	82	15.41	0	69.62	364
Okt.	7	22.627	94	49.68	150	35.711	83	84.81	354	49.837	78	45.26	106	15.41	8	65.98	375
	17	22.721	153	48.18	121	35.794	151	81.27	361	49.915	122	44.20	132	15.49	17	62.23	379
	27	22.874	211	46.97	87	35.945	221	77.66	360	50.037	167	42.88	156	15.66	27	58.44	374
Nov.	6	23.085	265	46.10	47	36.166	290	74.06	351	50.204	210	41.32	179	15.93	35	54.70	359
	16	23.350	314	45.63	2	36.456	355	70.55	331	50.414	250	39.53	198	16.28	44	51.11	335
	26	23.664	353	45.61	$\overline{44}$	36.811	412	67.24	304	50.664	285	37.55	212	16.72	51	47.76	301
Dez.	6	24.017	383	46.05	90	37.223	459	64.20	266	50.949	311	35.43	221	17.23	58	44.75	259
	16	24.400	399	46.95	134	37.682	492	61.54	220	51.260	327	33.22	223	17.81	62	42.16	208
	26	24.799	402	48.29	175	38.174	510	59.34	167	51.587	334	30.99	220	18.43	65	40.08	151
	36	25.201		50.04		38.684		57.67		51.921		28.79		19.08		38.57	
Mittl. Ort		22.903		48.25		36.899		88.99		49.875		45.43		17.50		71.24	
sec δ, tg δ		1.303		−0.836		1.800		+1.497		1.002		+0.065		2.433		+2.219	
a, *a′*		+3.3		−19.6		+2.6		−19.5		+3.1		−19.5		+2.4		−19.5	
b, *b′*		+0.05		+ 0.22		−0.10		+ 0.22		0.00		+ 0.23		−0.14		+ 0.23	

Scheinbare Sternörter 1945

Tag	485) α Can. ven. *sq*				488) ε Virginis				490) ϑ Virginis				492) β Comae[1]			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$12^h\ 53^m$		+38° 36′		$12^h\ 59^m$		+11° 14′		$13^h\ 7^m$		−5° 14′		$13^h\ 9^m$		+28° 8′	
	s		″		s		″		s		″		s		″	
Jan. 1	26.265	392	47.05	168	25.160	333	77.28	206	4.806	331	37.51	210	17.231	357	79.32	192
11	26.657	383	45.37	117	25.493	324	75.22	182	5.137	322	39.61	205	17.588	351	77.40	151
21	27.040	362	44.20	65	25.817	306	73.40	152	5.459	304	41.66	192	17.939	333	75.89	106
31	27.402	331	43.55	12	26.123	279	71.88	119	5.763	278	43.58	175	18.272	307	74.83	58
Febr. 10	27.733	291	43.43	41	26.402	246	70.69	83	6.041	246	45.33	153	18.579	274	74.25	11
20	28.024	244	43.84	89	26.648	209	69.86	47	6.287	212	46.86	129	18.853	234	74.14	35
März 2	28.268	195	44.73	131	26.857	170	69.39	13	6.499	175	48.15	104	19.087	191	74.49	77
12	28.463	144	46.04	166	27.027	131	69.26	18	6.674	137	49.19	77	19.278	148	75.26	114
22	28.607	94	47.70	193	27.158	94	69.44	46	6.811	102	49.96	53	19.426	105	76.40	143
Apr. 1	28.701	47	49.63	210	27.252	58	69.90	69	6.913	69	50.49	31	19.531	64	77.83	164
10	5 28.748	3	51.73	217	6 27.310	26	70.59	85	8 6.982	39	50.80	11	9 19.595	26	79.47	177
20	28.751	35	53.90	216	27.336	2	71.44	97	7.021	10	50.91	7	19.621	7	81.24	184
30	28.716	68	56.06	207	27.334	26	72.41	103	7.031	13	50.84	22	19.614	37	83.08	181
Mai 10	28.648	97	58.13	190	27.308	48	73.44	106	7.018	35	50.62	33	19.577	63	84.89	172
20	28.551	119	60.03	166	27.260	66	74.50	102	6.983	54	50.29	42	19.514	85	86.61	158
30	28.432	137	61.69	138	27.194	81	75.52	96	6.929	70	49.87	50	19.429	102	88.19	138
Juni 9	28.295	150	63.07	106	27.113	93	76.48	87	6.859	84	49.37	55	19.327	117	89.57	114
19	28.145	159	64.13	70	27.020	103	77.35	75	6.775	96	48.82	58	19.210	128	90.71	87
29	27.986	163	64.83	33	26.917	109	78.10	62	6.679	105	48.24	60	19.082	136	91.58	58
Juli 9	27.823	163	65.16	5	26.808	112	78.72	45	6.574	109	47.64	60	18.946	139	92.16	27
19	27.660	159	65.11	43	26.696	112	79.17	28	6.465	112	47.04	58	18.807	138	92.43	4
29	27.501	148	64.68	82	26.584	108	79.45	10	6.353	110	46.46	54	18.669	133	92.39	37
Aug. 8	27.353	134	63.86	119	26.476	99	79.55	10	6.243	103	45.92	48	18.536	124	92.02	70
18	27.219	113	62.67	154	26.377	84	79.45	31	6.140	89	45.44	40	18.412	108	91.32	101
28	27.106	87	61.13	188	26.293	65	79.14	54	6.051	71	45.04	27	18.304	87	90.31	132
Sept. 7	27.019	55	59.25	219	26.228	39	78.60	78	5.980	45	44.77	13	18.217	60	88.99	163
17	26.964	16	57.06	247	26.189	8	77.82	101	5.935	13	44.64	6	18.157	26	87.36	191
27	26.948	28	54.59	272	26.181	30	76.81	126	5.922	24	44.70	27	18.131	13	85.45	217
Okt. 7	26.976	76	51.87	291	26.211	70	75.55	151	5.946	65	44.97	52	18.144	57	83.28	241
17	27.052	127	48.96	306	26.281	115	74.04	175	6.011	111	45.49	77	18.201	105	80.87	261
27	27.179	181	45.90	315	26.396	161	72.29	196	6.122	157	46.26	104	18.306	154	78.26	275
Nov. 6	27.360	233	42.75	316	26.557	204	70.33	214	6.279	202	47.30	132	18.460	202	75.51	285
16	27.593	282	39.59	309	26.761	246	68.19	229	6.481	244	48.62	156	18.662	249	72.66	287
26	27.875	324	36.50	294	27.007	283	65.90	237	6.725	279	50.18	178	18.911	289	69.79	281
Dez. 6	28.199	359	33.56	270	27.290	310	63.53	238	7.004	307	51.96	196	19.200	322	66.98	268
16	28.558	382	30.86	238	27.600	328	61.15	232	7.311	326	53.92	208	19.522	346	64.30	246
26	28.940	394	28.48	198	27.928	337	58.83	220	7.637	334	56.00	212	19.868	358	61.84	216
36	29.334		26.50		28.265		56.63		7.971		58.12		20.226		59.68	
Mittl. Ort	27.451		53.97		26.282		75.70		5.940		44.93		18.452		83.16	
sec δ, tg δ	1.280		+0.799		1.020		+0.199		1.004		−0.092		1.134		+0.535	
a, *a′*	+2.8		−19.5		+3.0		−19.4		+3.1		−19.2		+2.9		−19.1	
b, *b′*	−0.05		+ 0.23		−0.01		+ 0.26		+0.01		+ 0.29		−0.03		+ 0.30	

[1]) Die jährliche Parallaxe (0″.121) ist bereits berücksichtigt.

Tag	495) γ Hydrae AR.		495) γ Hydrae Dekl.		496) ι Centauri AR.		496) ι Centauri Dekl.		497) ζ Ursae maj. *pr* AR.		497) ζ Ursae maj. *pr* Dekl.		498) α Virginis AR.		498) α Virginis Dekl.	
1945	13h 15m		—22° 52′		13h 17m		—36° 25′		13h 21m		+55° 12′		13h 22m		—10° 52′	
	s		"		s		"		s		"		s		"	
Jan. 1	54.399	350	41.38	195	28.610	385	3.91	176	41.325	491	33.36	168	16.282	334	19.97	204
11	54.749	342	43.33	209	28.995	376	5.67	203	41.816	492	31.68	108	16.616	328	22.01	205
21	55.091	323	45.42	216	29.371	356	7.70	225	42.308	476	30.60	45	16.944	312	24.06	199
31	55.414	297	47.58	218	29.727	327	9.95	239	42.784	447	30.15	17	17.256	288	26.05	188
Febr. 10	55.711	266	49.76	213	30.054	292	12.34	249	43.231	403	30.32	78	17.544	259	27.93	172
20	55.977	230	51.89	203	30.346	253	14.83	250	43.634	349	31.10	134	17.803	225	29.65	153
März 2	56.207	192	53.92	190	30.599	212	17.33	247	43.983	288	32.44	183	18.028	190	31.18	130
12	56.399	154	55.82	174	30.811	170	19.80	239	44.271	222	34.27	222	18.218	154	32.48	108
22	56.553	117	57.56	155	30.981	129	22.19	228	44.493	154	36.49	252	18.372	119	33.56	86
Apr. 1	56.670	83	59.11	136	31.110	89	24.47	211	44.647	86	39.01	270	18.491	85	34.42	63
11	56.753	50	60.47	116	31.199	53	26.58	193	44.733	22	41.71	278	18.576	55	35.05	44
20	11 56.803	21	61.63	96	11 31.252	18	28.51	172	12 44.755	37	44.49	274	12 18.631	27	35.49	25
30	56.824	7	62.59	76	31.270	14	30.23	150	44.718	90	47.23	261	18.658	1	35.74	9
Mai 10	56.817	31	63.35	55	31.256	44	31.73	124	44.628	138	49.84	238	18.659	23	35.83	5
20	56.786	54	63.90	36	31.212	70	32.97	99	44.490	177	52.22	207	18.636	43	35.78	18
30	56.732	74	64.26	16	31.[illegible]42	95	33.96	70	44.313	211	54.29	171	18.593	63	35.60	29
Juni 9	56.658	91	64.42	3	31.047	117	34.66	42	44.102	236	56.00	129	18.530	79	35.31	39
19	56.567	107	64.39	23	30.930	136	35.08	12	43.866	255	57.29	85	18.451	94	34.92	46
29	56.460	119	64.16	40	30.794	151	35.20	17	43.611	266	58.14	37	18.357	105	34.46	53
Juli 9	56.341	128	63.76	57	30.643	160	35.03	46	43.345	271	58.51	12	18.252	114	33.93	58
19	56.213	131	63.19	72	30.483	166	34.57	75	43.074	269	58.39	59	18.138	118	33.35	61
29	56.082	130	62.47	86	30.317	165	33.82	99	42.805	259	57.80	107	18.020	119	32.74	63
Aug. 8	55.952	124	61.61	95	30.152	156	32.83	122	42.546	242	56.73	153	17.901	113	32.11	62
18	55.828	111	60.66	101	29.996	139	31.61	139	42.304	216	55.20	196	17.788	103	31.49	58
28	55.717	89	59.65	104	29.857	115	30.22	152	42.088	184	53.24	237	17.685	84	30.91	51
Sept. 7	55.628	62	58.61	100	29.742	83	28.70	159	41.904	143	50.87	272	17.601	60	30.40	40
17	55.566	28	57.61	91	29.659	41	27.11	158	41.761	94	48.15	303	17.541	29	30.00	25
27	55.538	14	56.70	77	29.618	6	25.53	149	41.667	38	45.12	330	17.512	9	29.75	7
Okt. 7	55.552	60	55.93	56	29.624	60	24.04	133	41.629	24	41.82	349	17.521	51	29.68	16
17	55.612	110	55.37	31	29.684	116	22.71	110	41.653	92	38.33	362	17.572	98	29.84	41
27	55.722	160	55.06	2	29.800	174	21.61	80	41.745	163	34.71	368	17.670	145	30.25	68
Nov. 6	55.882	209	55.04	32	29.974	229	20.81	44	41.908	233	31.03	364	17.815	192	30.93	97
16	56.091	255	55.36	66	30.203	280	20.37	4	42.141	301	27.39	350	18.007	236	31.90	126
26	56.346	294	56.02	100	30.483	324	20.33	37	42.442	363	23.89	328	18.243	274	33.16	150
Dez. 6	56.640	324	57.02	132	30.807	357	20.70	80	42.805	417	20.61	296	18.517	305	34.66	173
16	56.964	344	58.34	161	31.164	379	21.50	119	43.222	457	17.65	254	18.822	325	36.39	191
26	57.308	353	59.95	185	31.543	389	22.69	157	43.679	485	15.11	204	19.147	336	38.30	202
36	57.661		61.80		31.932		24.26		44.164		13.07		19.483		40.32	
Mittl. Ort	55.579		54.94		29.813		21.78		42.840		43.55		17.505		29.42	
sec δ, tg δ	1.085		—0.422		1.243		—0.738		1.753		+1.440		1.018		—0.192	
a, *a′*	+3.3		—19.0		+3.4		—18.9		+2.4		—18.8		+3.2		—18.8	
b, *b′*	+0.03		+ 0.33		+0.05		+ 0.33		—0.09		+ 0.35		+0.01		+ 0.35	

Scheinbare Sternörter 1945

Tag	499) Grb 2001 U Min				500) 69 H. Ursae maj.				501) ζ Virginis				502) 17 H. Can. ven.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	13h 24m		+72° 40′		13h 26m		+60° 13′		13h 31m		−0° 18′		13h 32m		+37° 27′	
	s		″		s		″		s		″		s		″	
Jan. 1	41.63	84	23.85	136	24.46	55	34.81	164	51.989	328	49.70	210	19.118	381	42.88	203
11	42.47	85	22.49	71	25.01	55	33.17	102	52.317	324	51.80	199	19.499	381	40.85	156
21	43.32	83	21.78	4	25.56	53	32.15	38	52.641	310	53.79	182	19.880	370	39.29	103
31	44.15	78	21.74	62	26.09	50	31.77	27	52.951	290	55.61	161	20.250	347	38.26	48
Febr. 10	44.93	72	22.36	125	26.59	46	32.04	89	53.241	262	57.22	134	20.597	315	37.78	6
20	45.65	62	23.61	182	27.05	40	32.93	146	53.503	230	58.56	106	20.912	277	37.84	59
März 2	46.27	50	25.43	229	27.45	33	34.39	196	53.733	195	59.62	77	21.189	233	38.43	106
12	46.77	39	27.72	266	27.78	25	36.35	236	53.928	160	60.39	48	21.422	186	39.49	147
22	47.16	25	30.38	292	28.03	18	38.71	265	54.088	126	60.87	23	21.608	140	40.96	181
Apr. 1	47.41	11	33.30	306	28.21	10	41.36	284	54.214	92	61.10	2	21.748	94	42.77	205
11	13 47.52	2	36.36	308	13 28.31	2	44.20	290	15 54.306	62	61.08	21	15 21.842	51	44.82	219
20	47.50	13	39.44	297	28.33	5	47.10	285	54.368	33	60.87	38	21.893	10	47.01	225
30	47.37	25	42.41	277	28.28	11	49.95	271	54.401	7	60.49	50	21.903	26	49.26	222
Mai 10	47.12	35	45.18	247	28.17	17	52.66	246	54.408	16	59.99	60	21.877	59	51.48	210
20	46.77	43	47.65	209	28.00	22	55.12	214	54.392	38	59.39	65	21.818	87	53.58	191
30	46.34	50	49.74	164	27.78	25	57.26	175	54.354	58	58.74	68	21.731	112	55.49	167
Juni 9	45.84	56	51.38	116	27.53	29	59.01	132	54.296	74	58.06	68	21.619	133	57.16	137
19	45.28	59	52.54	64	27.24	31	60.33	85	54.222	90	57.38	67	21.486	148	58.53	104
29	44.69	61	53.18	10	26.93	32	61.18	35	54.132	102	56.71	63	21.338	161	59.57	68
Juli 9	44.08	61	53.28	44	26.61	33	61.53	16	54.030	111	56.08	57	21.177	168	60.25	29
19	43.47	61	52.84	97	26.28	33	61.37	66	53.919	117	55.51	51	21.009	172	60.54	9
29	42.86	58	51.87	148	25.95	31	60.71	115	53.802	118	55.00	41	20.837	169	60.45	49
Aug. 8	42.28	53	50.39	197	25.64	30	59.56	163	53.684	114	54.59	31	20.668	161	59.96	88
18	41.75	49	48.42	241	25.34	27	57.93	207	53.570	105	54.28	19	20.507	148	59.08	126
28	41.26	42	46.01	282	25.07	22	55.86	248	53.465	89	54.09	3	20.359	126	57.82	163
Sept. 7	40.84	34	43.19	317	24.85	19	53.38	284	53.376	67	54.06	14	20.233	99	56.19	198
17	40.50	24	40.02	345	24.66	13	50.54	316	53.309	37	54.20	34	20.134	65	54.21	230
27	40.26	14	36.57	368	24.53	6	47.38	343	53.272	1	54.54	56	20.069	23	51.91	259
Okt. 7	40.12	3	32.89	383	24.47	1	43.95	361	53.271	39	55.10	79	20.046	24	49.32	283
17	40.09	10	29.06	391	24.48	8	40.34	374	53.310	84	55.89	105	20.070	75	46.49	304
27	40.19	22	25.15	388	24.56	16	36.60	377	53.394	131	56.94	130	20.145	130	43.45	317
Nov. 6	40.41	34	21.27	377	24.72	25	32.83	372	53.525	178	58.24	153	20.275	184	40.28	325
16	40.75	47	17.50	356	24.97	32	29.11	357	53.703	221	59.77	176	20.459	237	37.03	324
26	41.22	58	13.94	325	25.29	39	25.54	333	53.924	261	61.53	194	20.696	286	33.79	314
Dez. 6	41.80	68	10.69	284	25.68	45	22.21	298	54.185	292	63.47	207	20.982	326	30.65	296
16	42.48	76	7.85	234	26.13	50	19.23	254	54.477	315	65.54	215	21.308	357	27.69	268
26	43.24	82	5.51	177	26.63	54	16.69	202	54.792	329	67.69	215	21.665	377	25.01	231
36	44.06		3.74		27.17		14.67		55.121		69.84		22.042		22.70	
Mittl. Ort	43.71		36.25		26.10		45.74		53.275		55.49		20.523		48.98	
sec δ, tg δ	3.358		+3.206		2.014		+1.748		1.000		−0.006		1.260		+0.766	
a, *a′*	+1.5		−18.7		+2.2		−18.6		+3.1		−18.5		+2.7		−18.4	
b, *b′*	−0.20		+ 0.36		−0.11		+ 0.37		0.00		+ 0.39		−0.05		+ 0.39	

Tag	504) ε Centauri AR.		Dekl.		507) τ Bootis AR.		Dekl.		509) η Ursae maj. AR.		Dekl.		510) 89 Virginis AR.		Dekl.	
1945	$13^h\ 36^m$		$-53°\ 10'$		$13^h\ 44^m$		$+17°\ 43'$		$13^h\ 45^m$		$+49°\ 34'$		$13^h\ 46^m$		$-17°\ 51'$	
	s		″		s		″		s		″		s		″	
Jan. 1	21.828	486	52.50	120	37.469	334	48.41	219	20.895	435	65.33	202	51.281	340	27.81	185
11	22.314	480	53.70	164	37.803	333	46.22	190	21.330	441	63.31	146	51.621	338	29.66	194
21	22.794	460	55.34	203	38.136	324	44.32	154	21.771	433	61.85	87	51.959	326	31.60	197
31	23.254	429	57.37	234	38.460	306	42.78	114	22.204	412	60.98	25	52.285	307	33.57	195
Febr. 10	23.683	390	59.71	259	38.766	279	41.64	73	22.616	380	60.73	36	52.592	280	35.52	186
20	24.073	344	62.30	278	39.045	247	40.91	30	22.996	336	61.09	94	52.872	249	37.38	174
März 2	24.417	294	65.08	289	39.292	213	40.61	10	23.332	286	62.03	146	53.121	216	39.12	157
12	24.711	242	67.97	294	39.505	176	40.71	47	23.618	232	63.49	190	53.337	182	40.69	140
22	24.953	190	70.91	293	39.681	139	41.18	80	23.850	174	65.39	225	53.519	147	42.09	122
Apr. 1	25.143	139	73.84	287	39.820	103	41.98	106	24.024	117	67.64	250	53.666	114	43.31	102
11	$_{16}$25.282	87	76.71	275	$_{18}$39.923	69	43.04	126	$_{18}$24.141	62	70.14	265	$_{18}$53.780	83	44.33	83
20	25.369	39	79.46	258	39.992	38	44.30	140	24.203	9	72.79	268	53.863	53	45.16	65
30	25.408	7	82.04	237	40.030	8	45.70	146	24.212	39	75.47	261	53.916	25	45.81	49
Mai 10	25.401	53	84.41	212	40.038	19	47.16	146	24.173	84	78.08	245	53.941	1	46.30	32
20	25.348	94	86.53	183	40.019	42	48.62	140	24.089	122	80.53	222	53.940	26	46.62	17
30	25.254	134	88.36	151	39.977	64	50.02	131	23.967	155	82.75	191	53.914	49	46.79	3
Juni 9	25.120	170	89.87	114	39.913	83	51.33	117	23.812	183	84.66	155	53.865	70	46.82	11
19	24.950	200	91.01	75	39.830	100	52.50	99	23.629	205	86.21	114	53.795	89	46.71	24
29	24.750	226	91.76	36	39.730	114	53.49	78	23.424	222	87.35	70	53.706	106	46.47	35
Juli 9	24.524	245	92.12	5	39.616	124	54.27	56	23.202	233	88.05	25	53.600	119	46.12	47
19	24.279	256	92.07	46	39.492	131	54.83	32	22.969	237	88.30	21	53.481	128	45.65	56
29	24.023	257	91.61	86	39.361	133	55.15	7	22.732	236	88.09	68	53.353	132	45.09	65
Aug. 8	23.766	248	90.75	123	39.228	130	55.22	19	22.496	226	87.41	114	53.221	131	44.44	70
18	23.518	229	89.52	156	39.098	122	55.03	47	22.270	210	86.27	157	53.090	123	43.74	73
28	23.289	196	87.96	183	38.976	106	54.56	74	22.060	186	84.70	199	52.967	108	43.01	73
Sept. 7	23.093	154	86.13	204	38.870	85	53.82	102	21.874	153	82.71	237	52.859	85	42.28	68
17	22.939	100	84.09	217	38.785	56	52.80	130	21.721	114	80.34	272	52.774	54	41.60	60
27	22.839	37	81.92	220	38.729	21	51.50	158	21.607	65	77.62	302	52.720	16	41.00	46
Okt. 7	22.802	34	79.72	215	38.708	20	49.92	183	21.542	10	74.60	328	52.704	27	40.54	27
17	22.836	110	77.57	199	38.728	65	48.09	208	21.532	50	71.32	346	52.731	75	40.27	5
27	22.946	186	75.58	174	38.793	113	46.01	229	21.582	115	67.86	357	52.806	125	40.22	21
Nov. 6	23.132	261	73.84	141	38.906	162	43.72	246	21.697	180	64.29	361	52.931	176	40.43	50
16	23.393	329	72.43	101	39.068	208	41.26	258	21.877	243	60.68	355	53.107	223	40.93	79
26	23.722	389	71.42	56	39.276	251	38.68	265	22.120	303	57.13	339	53.330	265	41.72	109
Dez. 6	24.111	436	70.86	6	39.527	287	36.03	262	22.423	355	53.74	314	53.595	299	42.81	136
16	24.547	468	70.80	45	39.814	314	33.41	253	22.778	396	50.60	280	53.894	325	44.17	159
26	25.015	487	71.25	93	40.128	331	30.88	236	23.174	426	47.80	235	54.219	340	45.76	178
36	25.502		72.18		40.459		28.52		23.600		45.45		54.559		47.54	
Mittl. Ort	23.319		74.61		38.853		48.60		22.490		74.00		52.668		39.57	
sec δ, tg δ	1.669		−1.336		1.050		+0.320		1.543		+1.174		1.051		−0.322	
a, *a′*	+3.8		−18.3		+2.9		−18.0		+2.4		−18.0		+3.3		−17.9	
b, *b′*	+0.08		+ 0.41		−0.02		+ 0.44		−0.07		+ 0.44		+0.02		+ 0.45	

Scheinbare Sternörter 1945

Tag	513) η Bootis[1])				512) ζ Centauri				517) 11 Bootis				516) τ Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	13h 52m		+18° 40′		13h 52m		−47° 0′		13h 58m		+27° 38′		13h 58m		+1° 48′	
	s		″		s		″		s		″		s		″	
Jan. 1	2.474	333	21.11	223	4.196	439	45.72	118	39.313	346	62.30	227	49.237	324	40.72	211
11	2.807	336	18.88	191	4.635	438	46.90	156	39.659	350	60.03	188	49.561	325	38.61	198
21	3.143	327	16.97	156	5.073	423	48.46	189	40.009	344	58.15	144	49.886	316	36.63	180
31	3.470	310	15.41	116	5.496	399	50.35	217	40.353	327	56.71	96	50.202	301	34.83	156
Febr. 10	3.780	284	14.25	72	5.895	366	52.52	237	40.680	303	55.75	46	50.503	277	33.27	128
20	4.064	253	13.53	29	6.261	329	54.89	253	40.983	272	55.29	$\overline{3}$	50.780	248	31.99	98
März 2	4.317	220	13.24	$\overline{12}$	6.590	286	57.42	261	41.255	236	55.32	50	51.028	218	31.01	67
12	4.537	183	13.36	51	6.876	241	60.03	264	41.491	198	55.82	92	51.246	185	30.34	37
22	4.720	146	13.87	84	7.117	197	62.67	262	41.689	159	56.74	129	51.431	151	29.97	9
Apr. 1	4.866	110	14.71	111	7.314	152	65.29	256	41.848	120	58.03	156	51.582	119	29.88	$\overline{16}$
11	4.976	76	15.82	131	7.466	108	67.85	244	41.968	82	59.59	178	51.701	89	30.04	37
20*)	[20] 5.052	44	17.13	145	[20] 7.574	66	70.29	229	42.050 [21]	47	61.37	190	51.790 [22]	59	30.41	53
30	5.096	14	18.58	151	7.640	24	72.58	210	42.097	13	63.27	194	51.849	31	30.94	66
Mai 10	5.110	$\overline{14}$	20.09	152	7.664	$\overline{16}$	74.68	188	42.110	$\overline{17}$	65.21	191	51.880	6	31.60	74
20	5.096	38	21.61	146	7.648	54	76.56	162	42.093	45	67.12	181	51.886	$\overline{18}$	32.34	79
30	5.058	61	23.07	136	7.594	89	78.18	135	42.048	70	68.93	165	51.868	40	33.13	80
Juni 9	4.997	81	24.43	120	7.505	123	79.53	103	41.978	93	70.58	144	51.828	62	33.93	78
19	4.916	98	25.63	102	7.382	154	80.56	70	41.885	113	72.02	119	51.766	80	34.71	74
29	4.818	114	26.65	81	7.228	179	81.26	35	41.772	129	73.21	90	51.686	96	35.45	67
Juli 9	4.704	124	27.46	57	7.049	199	81.61	$\overline{1}$	41.643	142	74.11	60	51.590	110	36.12	60
19	4.580	133	28.03	33	6.850	214	81.60	36	41.501	150	74.71	27	51.480	120	36.72	50
29	4.447	136	28.36	6	6.636	219	81.24	72	41.351	154	74.98	$\overline{7}$	51.360	125	37.22	38
Aug. 8	4.311	134	28.42	$\overline{22}$	6.417	216	80.52	104	41.197	152	74.91	41	51.235	126	37.60	26
18	4.177	126	28.20	49	6.201	203	79.48	133	41.045	145	74.50	75	51.109	120	37.86	11
28	4.051	111	27.71	78	5.998	179	78.15	158	40.900	130	73.75	109	50.989	107	37.97	$\overline{6}$
Sept. 7	3.940	91	26.93	107	5.819	145	76.57	176	40.770	109	72.66	142	50.882	88	37.91	24
17	3.849	62	25.86	135	5.674	101	74.81	187	40.661	80	71.24	174	50.794	61	37.67	44
27	3.787	27	24.51	162	5.573	47	72.94	191	40.581	43	69.50	205	50.733	28	37.23	67
Okt. 7	3.760	$\overline{13}$	22.89	189	5.526	$\overline{15}$	71.03	186	40.538	2	67.45	232	50.705	$\overline{12}$	36.56	90
17	3.773	59	21.00	214	5.541	82	69.17	172	40.536	$\overline{45}$	65.13	257	50.717	57	35.66	114
27	3.832	107	18.86	235	5.623	151	67.45	149	40.581	97	62.56	277	50.774	105	34.52	139
Nov. 6	3.939	156	16.51	252	5.774	218	65.96	118	40.678	148	59.79	291	50.879	152	33.13	162
16	4.095	203	13.99	264	5.992	282	64.78	82	40.826	198	56.88	299	51.031	198	31.51	182
26	4.298	247	11.35	269	6.274	338	63.96	40	41.024	246	53.89	299	51.229	240	29.69	200
Dez. 6	4.545	284	8.66	268	6.612	384	63.56	$\overline{4}$	41.270	286	50.90	292	51.469	276	27.69	212
16	4.829	312	5.98	257	6.996	417	63.60	49	41.556	317	47.98	274	51.745	304	25.57	217
26	5.141	331	3.41	240	7.413	437	64.09	93	41.873	341	45.24	249	52.049	321	23.40	217
36	5.472		1.01		7.850		65.02		42.214		42.75		52.370		21.23	
Mittl. Ort	3.893		21.58		5.794		66.08		40.806		65.33		50.676		35.62	
sec δ, tg δ	1.056		+0.338		1.467		−1.073		1.129		+0.524		1.001		+0.032	
a, *a′*	+2.9		−17.7		+3.7		−17.7		+2.7		−17.4		+3.1		−17.4	
b, *b′*	−0.02		+ 0.47		+0.06		+ 0.47		−0.03		+ 0.50		0.00		+ 0.50	

[1]) Die jährliche Parallaxe (0″.112) ist bereits berücksichtigt.

*) Bei Stern 517) und 516) lies Apr. 21.

Tag	518) β Centauri AR.		518) β Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.		520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		522) 12 d Bootis AR.		522) 12 d Bootis Dekl.	
1945	$13^{h}\ 59^{m}$		$-60°\ 6'$		$14^{h}\ 2^{m}$		$+64°\ 37'$		$14^{h}\ 3^{m}$		$-36°\ 5'$		$14^{h}\ 7^{m}$		$+25°\ 20'$	
	s		″		s		″		s		″		s		″	
Jan. 1	53.40	57	7.98	73	51.77	58	66.89	201	24.624	383	43.77	135	51.856	338	62.88	231
11	53.97	56	8.71	121	52.35	61	64.88	139	25.007	384	45.12	164	52.194	344	60.57	196
21	54.53	56	9.92	166	52.96	61	63.49	74	25.391	373	46.76	186	52.538	339	58.61	154
31	55.09	52	11.58	205	53.57	59	62.75	7	25.764	355	48.62	204	52.877	325	57.07	108
Febr. 10	55.61	48	13.63	238	54.16	55	62.68	60	26.119	328	50.66	215	53.202	303	55.99	59
20	56.09	44	16.01	265	54.71	50	63.28	121	26.447	296	52.81	221	53.505	274	55.40	11
März 2	56.53	39	18.66	284	55.21	43	64.49	176	26.743	260	55.02	221	53.779	240	55.29	36
12	56.92	32	21.50	297	55.64	35	66.25	224	27.003	224	57.23	218	54.019	203	55.65	79
22	57.24	27	24.47	304	55.99	27	68.49	261	27.227	186	59.41	210	54.222	167	56.44	115
Apr. 1	57.51	21	27.51	305	56.26	18	71.10	286	27.413	149	61.51	200	54.389	129	57.59	144
11	57.72	14	30.56	299	56.44	9	73.96	300	27.562	112	63.51	187	54.518	92	59.03	167
21	22 57.86	9	33.55	289	23 56.53	1	76.96	302	23 27.674	76	65.38	171	24 54.610	58	60.70	180
30	57.95	2	36.44	272	56.54	8	79.98	293	27.750	42	67.09	154	54.668	25	62.50	187
Mai 10	57.97	3	39.16	251	56.46	15	82.91	275	27.792	9	68.63	136	54.693	6	64.37	186
20	57.94	9	41.67	225	56.31	21	85.66	246	27.801	23	69.99	114	54.687	34	66.23	177
30	57.85	14	43.92	194	56.10	28	88.12	211	27.778	54	71.13	91	54.653	60	68.00	164
Juni 9	57.71	19	45.86	159	55.82	32	90.23	169	27.724	83	72.04	68	54.593	83	69.64	145
19	57.52	24	47.45	119	55.50	36	91.92	123	27.641	109	72.72	43	54.510	104	71.09	122
29	57.28	27	48.64	78	55.14	39	93.15	74	27.532	133	73.15	16	54.406	122	72.31	95
Juli 9	57.01	30	49.42	35	54.75	41	93.89	22	27.399	152	73.31	10	54.284	136	73.26	66
19	56.71	33	49.77	11	54.34	42	94.11	30	27.247	167	73.21	37	54.148	146	73.92	36
29	56.38	33	49.66	55	53.92	41	93.81	82	27.080	175	72.84	61	54.002	152	74.28	3
Aug. 8	56.05	33	49.11	98	53.51	41	92.99	132	26.905	175	72.23	85	53.850	152	74.31	29
18	55.72	31	48.13	139	53.10	38	91.67	181	26.730	167	71.38	106	53.698	146	74.02	62
28	55.41	27	46.74	173	52.72	34	89.86	226	26.563	151	70.32	122	53.552	134	73.40	96
Sept. 7	55.14	23	45.01	202	52.38	30	87.60	268	26.412	125	69.10	133	53.418	113	72.44	128
17	54.91	17	42.99	224	52.08	24	84.92	304	26.287	90	67.77	138	53.305	86	71.16	160
27	54.74	10	40.75	236	51.84	18	81.88	335	26.197	45	66.39	137	53.219	51	69.56	191
Okt. 7	54.64	1	38.39	240	51.66	9	78.53	360	26.152	5	65.02	129	53.168	10	67.65	219
17	54.63	8	35.99	231	51.57	2	74.93	378	26.157	62	63.73	113	53.158	36	65.46	244
27	54.71	16	33.68	214	51.55	8	71.15	386	26.219	122	62.60	91	53.194	86	63.02	265
Nov. 6	54.87	26	31.54	187	51.63	18	67.29	387	26.341	180	61.69	63	53.280	138	60.37	282
16	55.13	35	29.67	150	51.81	27	63.42	378	26.521	237	61.06	29	53.418	188	57.55	291
26	55.48	42	28.17	108	52.08	36	59.64	358	26.758	287	60.77	7	53.606	235	54.64	295
Dez. 6	55.90	48	27.09	59	52.44	44	56.06	327	27.045	329	60.84	45	53.841	276	51.69	289
16	56.38	53	26.50	9	52.88	51	52.79	287	27.374	360	61.29	82	54.117	309	48.80	274
26	56.91	56	26.41	43	53.39	56	49.92	237	27.734	380	62.11	117	54.426	332	46.06	252
36	57.47		26.84		53.95		47.55		28.114		63.28		54.758		43.54	
Mittl. Ort	55.35		31.03		53.84		77.56		26.221		60.97		53.386		65.14	
sec δ, tg δ	2.007		−1.740		2.335		+2.110		1.238		−0.729		1.107		+0.474	
a, *a′*	+4.2		−17.4		+1.6		−17.2		+3.6		−17.2		+2.7		−17.0	
b, *b′*	+0.10		+ 0.50		−0.12		+ 0.51		+0.04		+ 0.51		−0.03		+ 0.53	

Scheinbare Sternörter 1945

Tag	524) 4 Ursae min. AR.		524) Dekl.		523) κ Virginis AR.		523) Dekl.		525) ι Virginis AR.		525) Dekl.		526) α Bootis AR.		526) Dekl.	
1945	14h 8m		+77° 47′		14h 9m		−10° 0′		14h 13m		−5° 44′		14h 13m		+19° 27′	
	s		″		s		″		s		″		s		″	
Jan. 1	58.42	106	69.71	184	55.935	327	58.09	189	6.082	323	12.52	198	7.543	326	64.25	236
11	59.48	112	67.87	121	56.262	329	59.98	190	6.405	327	14.50	195	7.869	332	61.89	206
21	60.60	114	66.66	54	56.591	323	61.88	185	6.732	320	16.45	184	8.201	328	59.83	170
31	61.74	111	66.12	14	56.914	308	63.73	174	7.052	306	18.29	169	8.529	314	58.13	128
Febr. 10	62.85	106	66.26	80	57.222	286	65.47	159	7.358	285	19.98	149	8.843	293	56.85	85
20	63.91	96	67.06	142	57.508	259	67.06	139	7.643	258	21.47	126	9.136	266	56.00	40
März 2	64.87	83	68.48	197	57.767	228	68.45	118	7.901	229	22.73	101	9.402	235	55.60	4
12	65.70	68	70.45	243	57.995	198	69.63	95	8.130	199	23.74	75	9.637	201	55.64	44
22	66.38	50	72.88	277	58.193	166	70.58	72	8.329	166	24.49	50	9.838	165	56.08	79
Apr. 1	66.88	33	75.65	300	58.359	134	71.30	52	8.495	135	24.99	28	10.003	131	56.87	109
11	67.21	14	78.65	312	58.493	103	71.82	32	8.630	105	25.27	7	10.134	96	57.96	132
21	67.35	5	81.77	311	58.596	74	72.14	15	8.735	76	25.34	10	10.230	64	59.28	147
30	^{24}67.30	22	84.88	299	^{24}58.670	47	72.29	0	^{25}8.811	48	25.24	24	^{25}10.294	33	60.75	156
Mai 10	67.08	38	87.87	276	58.717	20	72.29	13	8.859	22	25.00	34	10.327	3	62.31	158
20	66.70	53	90.63	245	58.737	6	72.16	22	8.881	4	24.66	43	10.330	24	63.89	153
30	66.17	65	93.08	207	58.731	30	71.94	31	8.877	28	24.23	49	10.306	49	65.42	143
Juni 9	65.52	76	95.15	162	58.701	53	71.63	37	8.849	51	23.74	52	10.257	72	66.85	129
19	64.76	84	96.77	112	58.648	74	71.26	43	8.798	73	23.22	54	10.185	93	68.14	110
29	63.92	90	97.89	61	58.574	93	70.83	47	8.725	91	22.68	54	10.092	112	69.24	89
Juli 9	63.02	94	98.50	6	58.481	109	70.36	49	8.634	107	22.14	53	9.980	127	70.13	64
19	62.08	95	98.56	48	58.372	122	69.87	51	8.527	121	21.61	49	9.853	138	70.77	39
29	61.13	94	98.08	101	58.250	130	69.36	51	8.406	129	21.12	46	9.715	145	71.16	11
Aug. 8	60.19	92	97.07	152	58.120	132	68.85	49	8.277	131	20.66	39	9.570	147	71.27	18
18	59.27	86	95.55	201	57.988	128	68.36	45	8.146	127	20.27	32	9.423	142	71.09	46
28	58.41	79	93.54	246	57.860	117	67.91	39	8.019	117	19.95	22	9.281	130	70.63	77
Sept. 7	57.62	69	91.08	286	57.743	98	67.52	29	7.902	99	19.73	8	9.151	113	69.86	106
17	56.93	58	88.22	321	57.645	71	67.23	17	7.803	73	19.65	6	9.038	86	68.80	136
27	56.35	45	85.01	351	57.574	36	67.06	1	7.730	40	19.71	24	8.952	52	67.44	165
Okt. 7	55.90	29	81.50	372	57.538	4	67.05	18	7.690	0	19.95	45	8.900	14	65.79	192
17	55.61	13	77.78	387	57.542	49	67.23	41	7.690	45	20.40	68	8.886	32	63.87	218
27	55.48	4	73.91	393	57.591	98	67.64	64	7.735	93	21.08	92	8.918	81	61.69	241
Nov. 6	55.52	22	69.98	389	57.689	148	68.28	90	7.828	142	22.00	116	8.999	130	59.28	260
16	55.74	41	66.09	376	57.837	196	69.18	115	7.970	190	23.16	140	9.129	180	56.68	272
26	56.15	59	62.33	353	58.033	240	70.33	139	8.160	234	24.56	162	9.309	226	53.96	279
Dez. 6	56.74	74	58.80	319	58.273	276	71.72	160	8.394	270	26.18	179	9.535	265	51.17	279
16	57.48	89	55.61	275	58.549	304	73.32	176	8.664	300	27.97	192	9.800	298	48.38	270
26	58.37	101	52.86	222	58.853	324	75.08	188	8.964	319	29.89	199	10.098	320	45.68	253
36	59.38		50.64		59.177		76.96		9.283		31.88		10.418		43.15	
Mittl. Ort	61.72		81.27		57.449		67.07		7.606		20.08		9.079		64.73	
sec δ, tg δ	4.734		+4.628		1.016		−0.177		1.005		−0.101		1.061		+0.354	
a, *a′*	−0.2		−16.9		+3.2		−16.9		+3.1		−16.8		+2.8		−16.8	
b, *b′*	−0.26		+0.53		+0.01		+0.54		+0.01		+0.55		−0.02		+0.55	

Tag	527) λ Bootis AR.		527) λ Bootis Dekl.		531) ϑ Bootis AR.		531) ϑ Bootis Dekl.		534) ρ Bootis AR.		534) ρ Bootis Dekl.		535) γ Bootis AR.		535) γ Bootis Dekl.	
1945	14h 14m		+46° 19′		14h 23m		+52° 5′		14h 29m		+30° 36′		14h 29m		+38° 32′	
	s		″		s		″		s		″		s		″	
Jan. 1	15.851	399	77.26	232	17.537	428	67.26	239	25.858	338	39.82	245	50.041	359	47.58	248
11	16.250	413	74.94	181	17.965	446	64.87	185	26.196	350	37.37	206	50.400	372	45.10	202
21	16.663	413	73.13	124	18.411	451	63.02	125	26.546	350	35.31	161	50.772	375	43.08	151
31	17.076	400	71.89	64	18.862	440	61.77	61	26.896	341	33.70	110	51.147	366	41.57	95
Febr. 10	17.476	375	71.25	2	19.302	417	61.16	3	27.237	322	32.60	57	51.513	346	40.62	37
20	17.851	342	71.23	58	19.719	383	61.19	65	27.559	296	32.03	4	51.859	319	40.25	20
März 2	18.193	301	71.81	113	20.102	338	61.84	122	27.855	264	31.99	46	52.178	285	40.45	75
12	18.494	253	72.94	162	20.440	288	63.06	173	28.119	230	32.45	93	52.463	246	41.20	124
22	18.747	203	74.56	203	20.728	232	64.79	216	28.349	192	33.38	134	52.709	204	42.44	167
Apr. 1	18.950	152	76.59	234	20.960	175	66.95	248	28.541	153	34.72	167	52.913	161	44.11	200
11	19.102	101	78.93	254	21.135	116	69.43	270	28.694	115	36.39	191	53.074	118	46.11	225
21	19.203	52	81.47	265	21.251	60	72.13	280	28.809	78	38.30	208	53.192	75	48.36	240
30	25 19.255	4	84.12	265	28 21.311	5	74.93	280	29 28.887	42	40.38	216	29 53.267	34	50.76	246
Mai 10	19.259	39	86.77	256	21.316	47	77.73	271	28.929	8	42.54	214	53.301	4	53.22	241
20	19.220	79	89.33	237	21.269	94	80.44	251	28.937	25	44.68	206	53.297	40	55.63	230
30	19.141	116	91.70	212	21.175	136	82.95	225	28.912	54	46.74	191	53.257	74	57.93	210
Juni 9	19.025	147	93.82	181	21.039	174	85.20	191	28.858	82	48.65	170	53.183	104	60.03	185
19	18.878	174	95.63	144	20.865	207	87.11	152	28.776	107	50.35	144	53.079	132	61.88	154
29	18.704	197	97.07	104	20.658	234	88.63	109	28.669	129	51.79	115	52.947	154	63.42	119
Juli 9	18.507	214	98.11	60	20.424	253	89.72	63	28.540	147	52.94	82	52.793	174	64.61	81
19	18.293	226	98.71	16	20.171	268	90.35	16	28.393	161	53.76	47	52.619	189	65.42	41
29	18.067	230	98.87	30	19.903	275	90.51	33	28.232	170	54.23	10	52.430	197	65.83	1
Aug. 8	17.837	229	98.57	76	19.628	274	90.18	81	28.062	174	54.33	26	52.233	200	65.82	43
18	17.608	220	97.81	120	19.354	264	89.37	128	27.888	171	54.07	64	52.033	196	65.39	85
28	17.388	202	96.61	164	19.090	246	88.09	174	27.717	160	53.43	101	51.837	184	64.54	126
Sept. 7	17.186	176	94.97	205	18.844	218	86.35	216	27.557	142	52.42	138	51.653	163	63.28	166
17	17.010	142	92.92	242	18.626	182	84.19	256	27.415	115	51.04	172	51.490	135	61.62	204
27	16.868	100	90.50	276	18.444	135	81.63	292	27.300	82	49.32	206	51.355	99	59.58	238
Okt. 7	16.768	50	87.74	306	18.309	81	78.71	321	27.218	41	47.26	236	51.256	54	57.20	270
17	16.718	7	84.68	329	18.228	19	75.50	346	27.177	6	44.90	264	51.202	4	54.50	297
27	16.725	68	81.39	347	18.209	48	72.04	363	27.183	58	42.26	286	51.198	51	51.53	318
Nov. 6	16.793	131	77.92	357	18.257	119	68.41	372	27.241	112	39.40	303	51.249	109	48.35	333
16	16.924	195	74.35	357	18.376	188	64.69	373	27.353	165	36.37	312	51.358	167	45.02	339
26	17.119	255	70.78	349	18.564	256	60.96	362	27.518	216	33.25	315	51.525	223	41.63	338
Dez. 6	17.374	308	67.29	330	18.820	318	57.34	342	27.734	262	30.10	308	51.748	272	38.25	326
16	17.682	353	63.99	301	19.138	370	53.92	311	27.996	300	27.02	292	52.020	314	34.99	304
26	18.035	388	60.98	263	19.508	411	50.81	271	28.296	329	24.10	267	52.334	347	31.95	273
36	18.423		58.35		19.919		48.10		28.625		21.43		52.681		29.22	
Mittl. Ort	17.576		84.63		19.406		75.51		27.520		43.21		51.764		52.90	
sec δ, tg δ	1.448		+1.048		1.628		+1.285		1.162		+0.592		1.279		+0.797	
a, *a′*	+2.3		−16.7		+2.1		−16.2		+2.6		−15.9		+2.4		−15.9	
b, *b′*	−0.06		+ 0.55		−0.07		+ 0.59		−0.03		+ 0.61		−0.04		+ 0.61	

Scheinbare Sternörter 1945

Tag	537) η Centauri				538) α Centauri [1])				1382) 32 Bootis				545) μ Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	14h 31m		−41° 54′		14h 35m		−60° 36′		14h 39m		+11° 53′		14h 40m		−5° 25′	
	s		″		s		″		s		″		s		″	
Jan. 1	58.348	403	44.60	89	48.44	55	16.86	33	3.206	312	49.53	228	7.802	315	5.45	192
11	58.751	410	45.49	122	48.99	57	17.19	81	3.518	322	47.25	207	8.117	323	7.37	188
21	59.161	407	46.71	152	49.56	56	18.00	125	3.840	322	45.18	178	8.440	321	9.25	179
31	59.568	394	48.23	175	50.12	55	19.25	165	4.162	312	43.40	146	8.761	312	11.04	163
Febr. 10	59.962	371	49.98	194	50.67	51	20.90	201	4.474	297	41.94	108	9.073	296	12.67	143
20	60.333	342	51.92	208	51.18	47	22.91	230	4.771	274	40.86	68	9.369	273	14.10	120
März 2	60.675	309	54.00	215	51.65	43	25.21	254	5.045	248	40.18	29	9.642	248	15.30	95
12	60.984	274	56.15	220	52.08	37	27.75	270	5.293	218	39.89	9	9.890	220	16.25	69
22	61.258	236	58.35	219	52.45	31	30.45	282	5.511	188	39.98	43	10.110	190	16.94	45
Apr. 1	61.494	198	60.54	214	52.76	26	33.27	286	5.699	156	40.41	73	10.300	161	17.39	21
11	61.692	159	62.68	207	53.02	19	36.13	287	5.855	124	41.14	98	10.461	132	17.60	0
21	61.851	121	64.75	197	53.21	13	39.00	281	5.979	94	42.12	116	10.593	103	17.60	16
30*)	[30] 61.972	82	66.72	184	[1] 53.34	7	41.81	271	[2] 6.073	64	43.28	128	[2] 10.696	74	17.44	30
Mai 10	62.054	43	68.56	167	53.41	1	44.52	254	6.137	36	44.56	135	10.770	47	17.14	41
20	62.097	5	70.23	150	53.42	5	47.06	233	6.173	7	45.91	135	10.817	19	16.73	48
30	62.102	32	71.73	129	53.37	11	49.39	208	6.180	20	47.26	131	10.836	8	16.25	54
Juni 9	62.070	68	73.02	105	53.26	17	51.47	177	6.160	46	48.57	122	10.828	33	15.71	55
19	62.002	102	74.07	79	53.09	22	53.24	143	6.114	69	49.79	110	10.795	58	15.16	56
29	61.900	133	74.86	52	52.87	26	54.67	105	6.045	92	50.89	95	10.737	81	14.60	55
Juli 9	61.767	160	75.38	23	52.61	31	55.72	63	5.953	110	51.84	77	10.656	102	14.05	53
19	61.607	182	75.61	7	52.30	33	56.35	21	5.843	127	52.61	57	10.554	118	13.52	48
29	61.425	197	75.54	36	51.97	35	56.56	23	5.716	139	53.18	36	10.436	131	13.04	44
Aug. 8	61.228	203	75.18	66	51.62	36	56.33	67	5.577	144	53.54	13	10.305	138	12.60	36
18	61.025	201	74.52	92	51.26	35	55.66	107	5.433	144	53.67	10	10.167	138	12.24	29
28	60.824	187	73.60	115	50.91	32	54.59	146	5.289	137	53.57	35	10.029	132	11.95	18
Sept. 7	60.637	163	72.45	135	50.59	28	53.13	179	5.152	123	53.22	62	9.897	117	11.77	7
17	60.474	129	71.10	149	50.31	23	51.34	205	5.029	99	52.60	87	9.780	94	11.70	9
27	60.345	85	69.61	155	50.08	16	49.29	224	4.930	70	51.73	114	9.686	63	11.79	25
Okt. 7	60.260	31	68.06	154	49.92	8	47.05	233	4.860	33	50.59	140	9.623	25	12.04	45
17	60.229	29	66.52	146	49.84	2	44.72	233	4.827	11	49.19	167	9.598	18	12.49	66
27	60.258	93	65.06	131	49.86	10	42.39	223	4.838	59	47.52	191	9.616	66	13.15	89
Nov. 6	60.351	158	63.75	107	49.96	20	40.16	201	4.897	108	45.61	212	9.682	116	14.04	112
16	60.509	221	62.68	78	50.16	30	38.15	173	5.005	157	43.49	230	9.798	165	15.16	135
26	60.730	279	61.90	45	50.46	37	36.42	136	5.162	203	41.19	243	9.963	211	16.51	156
Dez. 6	61.009	329	61.45	7	50.83	45	35.06	92	5.365	245	38.76	248	10.174	251	18.07	173
16	61.338	369	61.38	31	51.28	51	34.14	45	5.610	279	36.28	248	10.425	284	19.80	185
26	61.707	396	61.69	68	51.79	54	33.69	4	5.889	304	33.80	240	10.709	308	21.65	193
36	62.103		62.37		52.33		33.73		6.193		31.40		11.017		23.58	
Mittl. Ort	60.259		62.59		50.84		38.85		4.856		47.59		9.474		12.67	
sec δ, tg δ	1.344		−0.898		2.038		−1.775		1.022		+0.211		1.005		−0.095	
a, *a′*	+3.8		−15.8		+4.6		−15.6		+2.9		−15.4		+3.2		−15.3	
b, *b′*	+0.05		+ 0.62		+0.09		+ 0.63		−0.01		+ 0.64		0.00		+ 0.64	

[1]) Ort des helleren Sterns. Die jährliche Parallaxe (0″.756) ist bereits berücksichtigt.

*) Bei Stern 538), 1382) und 545) lies Mai 1.

542) α Apodis

Tag	AR.	Δ	Dekl.	Δ
1945	$14^h\ 40^m$		$-78°\ 48'$	
	s		″	
Jan. 1	50.70	127	25.20	38
11	51.97	132	24.82	$\overline{19}$
21	53.29	132	25.01	75
31	54.61	131	25.76	127
Febr. 10	55.92	125	27.03	175
20	57.17	117	28.78	219
März 2	58.34	106	30.97	256
12	59.40	95	33.53	287
22	60.35	81	36.40	312
Apr. 1	61.16	67	39.52	329
11	61.83	51	42.81	339
21	62.34	34	46.20	343
Mai 1	62.68	18	49.63	340
10	[2] 62.86	0	53.03	328
20	62.86	16	56.31	311
30	62.70	33	59.42	286
Juni 9	62.37	48	62.28	255
19	61.89	62	64.83	218
29	61.27	75	67.01	174
Juli 9	60.52	85	68.75	127
19	59.67	93	70.02	76
29	58.74	98	70.78	21
Aug. 8	57.76	99	70.99	$\overline{33}$
18	56.77	97	70.66	86
28	55.80	90	69.80	138
Sept. 7	54.90	81	68.42	184
17	54.09	67	66.58	224
27	53.42	50	64.34	256
Okt. 7	52.92	31	61.78	278
17	52.61	$\underline{9}$	59.00	289
27	52.52	14	56.11	288
Nov. 6	52.66	36	53.23	275
16	53.02	59	50.48	252
26	53.61	78	47.96	217
Dez. 6	54.39	97	45.79	175
16	55.36	111	44.04	126
26	56.47	123	42.78	71
36	57.70		42.07	
Mittl. Ort	55.74		49.21	
sec δ, tg δ	5.155		−5.057	
a, a′	+7.4		−15.3	
b, b′	+0.26		+ 0.65	

547) 109 Virginis

Tag	AR.	Δ	Dekl.	Δ
1945	$14^h\ 43^m$		$+2°\ 7'$	
	s		″	
Jan. 1	26.251	310	29.69	209
11	26.561	318	27.60	197
21	26.879	319	25.63	180
31	27.198	310	23.83	156
Febr. 10	27.508	294	22.27	128
20	27.802	273	20.99	98
März 2	28.075	248	20.01	66
12	28.323	220	19.35	34
22	28.543	191	19.01	5
Apr. 1	28.734	161	18.96	$\overline{21}$
11	28.895	131	19.17	44
21	29.026	102	19.61	62
Mai 1	29.128	74	20.23	76
10	[3] 29.202	45	20.99	84
20	29.247	$\underline{18}$	21.83	89
30	29.265	9	22.72	90
Juni 9	29.256	35	23.62	88
19	29.221	59	24.50	83
29	29.162	82	25.33	75
Juli 9	29.080	102	26.08	66
19	28.978	120	26.74	54
29	28.858	132	27.28	43
Aug. 8	28.726	139	27.71	28
18	28.587	140	27.99	14
28	28.447	134	28.13	$\overline{4}$
Sept. 7	28.313	120	28.09	22
17	28.193	98	27.87	42
27	28.095	68	27.45	63
Okt. 7	28.027	31	26.82	86
17	27.996	$\overline{11}$	25.96	110
27	28.007	59	24.86	133
Nov. 6	28.066	109	23.53	156
16	28.175	157	21.97	176
26	28.332	203	20.21	194
Dez. 6	28.535	244	18.27	207
16	28.779	277	16.20	214
26	29.056	302	14.06	213
36	29.358		11.93	
Mittl. Ort	27.924		24.81	
sec δ, tg δ	1.001		+0.037	
a, a′	+3.0		−15.2	
b, b′	0.00		+ 0.65	

548) α² Librae

Tag	AR.	Δ	Dekl.	Δ
1945	$14^h\ 47^m$		$-15°\ 48'$	
	s		″	
Jan. 1	48.093	322	41.54	159
11	48.415	332	43.13	167
21	48.747	331	44.80	168
31	49.078	323	46.48	165
Febr. 10	49.401	307	48.13	156
20	49.708	286	49.69	144
März 2	49.994	260	51.13	128
12	50.254	233	52.41	111
22	50.487	204	53.52	93
Apr. 1	50.691	175	54.45	76
11	50.866	145	55.21	58
21	51.011	116	55.79	44
Mai 1	51.127	87	56.23	30
10	[4] 51.214	57	56.53	17
20	51.271	29	56.70	$\underline{7}$
30	51.300	0	56.77	2
Juni 9	51.300	27	56.75	10
19	51.273	55	56.65	18
29	51.218	81	56.47	25
Juli 9	51.137	103	56.22	32
19	51.034	122	55.90	36
29	50.912	136	55.54	42
Aug. 8	50.776	146	55.12	45
18	50.630	147	54.67	47
28	50.483	141	54.20	47
Sept. 7	50.342	127	53.73	44
17	50.215	104	53.29	38
27	50.111	71	52.91	28
Okt. 7	50.040	33	52.63	15
17	50.007	13	52.48	$\overline{3}$
27	50.020	63	52.51	23
Nov. 6	50.083	114	52.74	46
16	50.197	166	53.20	70
26	50.363	213	53.90	95
Dez. 6	50.576	256	54.85	117
16	50.832	290	56.02	137
26	51.122	315	57.39	154
36	51.437		58.93	
Mittl. Ort	49.852		51.80	
sec δ, tg δ	1.039		−0.283	
a, a′	+3.3		−14.9	
b, b′	+0.01		+ 0.67	

549) Grb 2164 Draco

Tag	AR.	Δ	Dekl.	Δ
1945	$14^h\ 50^m$		$+59°\ 30'$	
	s		″	
Jan. 1	0.185	465	52.21	258
11	0.650	499	49.63	204
21	1.149	517	47.59	142
31	1.666	516	46.17	76
Febr. 10	2.182	501	45.41	$\underline{10}$
20	2.683	469	45.31	56
März 2	3.152	425	45.87	118
12	3.577	372	47.05	174
22	3.949	309	48.79	221
Apr. 1	4.258	241	51.00	257
11	4.499	171	53.57	284
21	4.670	101	56.41	298
Mai 1	4.771	31	59.39	302
10	[5] 4.802	$\overline{36}$	62.41	295
20	4.766	98	65.36	278
30	4.668	157	68.14	253
Juni 9	4.511	210	70.67	220
19	4.301	255	72.87	181
29	4.046	295	74.68	137
Juli 9	3.751	325	76.05	89
19	3.426	349	76.94	40
29	3.077	363	77.34	$\overline{11}$
Aug. 8	2.714	367	77.23	63
18	2.347	362	76.60	112
28	1.985	345	75.48	162
Sept. 7	1.640	317	73.86	208
17	1.323	278	71.78	251
27	1.045	227	69.27	290
Okt. 7	0.818	167	66.37	323
17	0.651	96	63.14	350
27	0.555	18	59.64	371
Nov. 6	0.537	$\overline{64}$	55.93	383
16	0.601	148	52.10	385
26	0.749	232	48.25	378
Dez. 6	0.981	311	44.47	359
16	1.292	380	40.88	329
26	1.672	438	37.59	290
36	2.110		34.69	
Mittl. Ort	2.412		60.78	
sec δ, tg δ	1.971		+1.699	
a, a′	+1.5		−14.8	
b, b′	−0.08		+ 0.68	

Tag	550) β Ursae min. AR.		550) β Ursae min. Dekl.		551) Pi 14ʰ 221 Boot AR.		551) Pi 14ʰ 221 Boot Dekl.		552) β Lupi AR.		552) β Lupi Dekl.		555) β Bootis AR.		555) β Bootis Dekl.	
1945	$14^h\ 50^m$		$+74°\ 22'$		$14^h\ 53^m$		$+14°\ 39'$		$14^h\ 54^m$		$-42°\ 54'$		$14^h\ 59^m$		$+40°\ 36'$	
	s		"		s		"		s		"		s		"	
Jan. 1	47.22	77	39.20	241	35.618	307	64.26	235	52.987	399	31.96	62	50.483	345	18.68	270
11	47.99	85	36.79	182	35.925	319	61.91	212	53.386	413	32.58	95	50.828	367	15.98	226
21	48.84	88	34.97	118	36.244	322	59.79	182	53.799	415	33.53	125	51.195	376	13.72	175
31	49.72	90	33.79	51	36.566	317	57.97	146	54.214	406	34.78	150	51.571	375	11.97	119
Febr. 10	50.62	88	33.28	17	36.883	303	56.51	107	54.620	389	36.28	171	51.946	363	10.78	59
20	51.50	83	33.45	84	37.186	283	55.44	64	55.009	364	37.99	187	52.309	341	10.19	1
März 2	52.33	75	34.29	145	37.469	258	54.80	22	55.373	335	39.86	198	52.650	313	10.20	59
12	53.08	64	35.74	200	37.727	230	54.58	19	55.708	303	41.84	204	52.963	278	10.79	112
22	53.72	53	37.74	245	37.957	201	54.77	55	56.011	267	43.88	207	53.241	238	11.91	159
Apr. 1	54.25	40	40.19	278	38.158	170	55.32	87	56.278	230	45.95	206	53.479	197	13.50	199
11	54.65	26	42.97	302	38.328	138	56.19	114	56.508	193	48.01	202	53.676	154	15.49	227
21	54.91	12	45.99	313	38.466	108	57.33	132	56.701	154	50.03	195	53.830	111	17.76	248
Mai 1	55.03	2	49.12	312	38.574	77	58.65	146	56.855	114	51.98	185	53.941	68	20.24	259
10	55.01	15	52.24	301	38.651	47	60.11	153	56.969	75	53.83	173	54.009	25	22.83	258
20	54.86	28	55.25	279	38.698	17	61.64	153	57.044	34	55.56	159	54.034	14	25.41	250
30	54.58	40	58.04	250	38.715	11	63.17	147	57.078	7	57.15	140	54.020	53	27.91	234
Juni 9	54.18	50	60.54	212	38.704	39	64.64	138	57.071	46	58.55	119	53.967	89	30.25	211
19	53.68	58	62.66	169	38.665	64	66.02	124	57.025	84	59.74	97	53.878	122	32.36	181
29	53.10	65	64.35	122	38.601	89	67.26	107	56.941	120	60.71	71	53.756	151	34.17	146
Juli 9	52.45	71	65.57	71	38.512	110	68.33	86	56.821	152	61.42	43	53.605	176	35.63	109
19	51.74	75	66.28	18	38.402	129	69.19	65	56.669	178	61.85	14	53.429	197	36.72	68
29	50.99	76	66.46	35	38.273	142	69.84	40	56.491	199	61.99	16	53.232	212	37.40	25
Aug. 8	50.23	77	66.11	89	38.131	150	70.24	15	56.292	210	61.83	44	53.020	221	37.65	19
18	49.46	74	65.22	140	37.981	153	70.39	11	56.082	213	61.39	73	52.799	221	37.46	62
28	48.72	71	63.82	188	37.828	147	70.28	39	55.869	204	60.66	99	52.578	214	36.84	106
Sept. 7	48.01	66	61.94	235	37.681	135	69.89	66	55.665	185	59.67	121	52.364	199	35.78	149
17	47.35	58	59.59	276	37.546	113	69.23	95	55.480	153	58.46	137	52.165	173	34.29	190
27	46.77	48	56.83	314	37.433	85	68.28	123	55.327	112	57.09	149	51.992	139	32.39	228
Okt. 7	46.29	38	53.69	344	37.348	48	67.05	151	55.215	60	55.60	153	51.853	97	30.11	263
17	45.91	26	50.25	368	37.300	6	65.54	177	55.155	0	54.07	149	51.756	48	27.48	293
27	45.65	11	46.57	385	37.294	42	63.77	203	55.155	65	52.58	138	51.708	8	24.55	318
Nov. 6	45.54	3	42.72	392	37.336	92	61.74	224	55.220	131	51.20	119	51.716	67	21.37	337
16	45.57	17	38.80	390	37.428	142	59.50	242	55.351	197	50.01	95	51.783	128	18.00	347
26	45.74	33	34.90	377	37.570	189	57.08	254	55.548	259	49.06	65	51.911	187	14.53	349
Dez. 6	46.07	48	31.13	354	37.759	233	54.54	259	55.807	312	48.41	30	52.098	242	11.04	341
16	46.55	60	27.59	319	37.992	269	51.95	258	56.119	356	48.11	5	52.340	290	7.63	323
26	47.15	71	24.40	275	38.261	297	49.37	247	56.475	390	48.16	42	52.630	328	4.40	294
36	47.86		21.65		38.558		46.90		56.865		48.58		52.958		1.46	
Mittl. Ort	50.52		49.13		37.338		63.06		55.116		49.32		52.372		23.78	
sec δ, tg δ	3.714		+3.577		1.034		+0.262		1.365		−0.930		1.317		+0.857	
a, a'	−0.2		−14.7		+2.8		−14.6		+3.9		−14.5		+2.3		−14.2	
b, b'	−0.18		+ 0.68		−0.01		+ 0.69		+0.04		+ 0.69		−0.04		+ 0.71	

Tag	556) σ Librae AR.		556) σ Librae Dekl.		557) ψ Bootis AR.		557) ψ Bootis Dekl.		558) ζ Lupi AR.		558) ζ Lupi Dekl.		563) δ Bootis AR.		563) δ Bootis Dekl.	
1945	15h 0m		−25° 3′		15h 2m		+27° 9′		15h 8m		−51° 53′		15h 13m		+33° 30′	
	s		"		s		"		s		"		s		"	
Jan. 1	48.775	335	49.03	120	3.446	314	37.92	258	16.678	451	10.44	15	15.143	318	65.00	272
11	49.110	346	50.23	138	3.760	330	35.34	225	17.129	472	10.59	54	15.461	339	62.28	235
21	49.456	348	51.61	149	4.090	338	33.09	184	17.601	477	11.13	91	15.800	349	59.93	190
31	49.804	342	53.10	156	4.428	334	31.25	137	18.078	472	12.04	125	16.149	349	58.03	138
Febr. 10	50.146	327	54.66	158	4.762	322	29.88	87	18.550	457	13.29	155	16.498	341	56.65	83
20	50.473	308	56.24	155	5.084	303	29.01	35	19.007	433	14.84	180	16.839	323	55.82	27
März 2	50.781	283	57.79	150	5.387	279	28.66	17	19.440	402	16.64	200	17.162	298	55.55	28
12	51.064	257	59.29	140	5.666	249	28.83	64	19.842	366	18.64	215	17.460	269	55.83	81
22	51.321	228	60.69	130	5.915	216	29.47	108	20.208	328	20.79	226	17.729	236	56.64	127
Apr. 1	51.549	198	61.99	119	6.131	183	30.55	144	20.536	285	23.05	233	17.965	201	57.91	167
11	51.747	168	63.18	106	6.314	148	31.99	174	20.821	241	25.38	236	18.166	163	59.58	198
21	51.915	137	64.24	95	6.462	113	33.73	194	21.062	196	27.74	234	18.329	125	61.56	221
Mai 1	[7] 52.052	107	65.19	82	[8] 6.575	78	35.67	207	[9] 21.258	147	30.08	228	[10] 18.454	88	63.77	235
10	52.159	74	66.01	71	6.653	44	37.74	211	21 405	99	32.36	219	18.542	50	66.12	239
20	52.233	43	66.72	59	6.697	11	39.85	208	21.504	49	34.55	206	18.592	12	68.51	234
30	52.276	12	67.31	47	6.708	21	41.93	198	21.553	1	36.61	188	18.604	23	70.85	223
Juni 9	52.288	21	67.78	35	6.687	53	43.91	182	21.552	52	38.49	167	18.581	56	73.08	205
19	52.267	51	68.13	22	6.634	81	45.73	160	21.500	99	40.16	141	18.525	89	75.13	180
29	52.216	80	68.35	10	6.553	107	47.33	133	21.401	145	41.57	113	18.436	119	76.93	151
Juli 9	52.136	107	68.45	4	6.446	131	48.66	105	21.256	185	42.70	81	18.317	145	78.44	118
19	52.029	130	68.41	17	6.315	151	49.71	72	21.071	220	43.51	46	18.172	167	79.62	82
29	51.899	147	68.24	31	6.164	166	50.43	39	20.851	246	43.97	10	18.005	185	80.44	43
Aug. 8	51.752	159	67.93	43	5.998	175	50.82	3	20.605	262	44.07	26	17.820	195	80.87	4
18	51.593	163	67.50	54	5.823	178	50.85	33	20.343	268	43.81	63	17.625	199	80.91	37
28	51.430	158	66.96	63	5.645	173	50.52	69	20.075	260	43.18	97	17.426	196	80.54	77
Sept. 7	51.272	145	66.33	69	5.472	160	49.83	105	19.815	239	42.21	127	17.230	184	79.77	117
17	51.127	121	65.64	72	5.312	139	48.78	141	19.576	204	40.94	153	17.046	163	78.60	157
27	51.006	89	64.92	70	5.173	109	47.37	175	19.372	157	39.41	173	16.883	133	77.03	193
Okt. 7	50.917	48	64.22	63	5.064	72	45.62	207	19.215	97	37.68	186	16.750	95	75.10	229
17	50.869	0	63.59	52	4.992	27	43.55	237	19.118	29	35.82	189	16.655	50	72.81	260
27	50.869	53	63.07	35	4.965	22	41.18	263	19.089	46	33.93	184	16.605	2	70.21	286
Nov. 6	50.922	108	62.72	15	4.987	74	38.55	284	19.135	125	32.09	171	16.607	57	67.35	309
16	51.030	162	62.57	9	5.061	128	35.71	298	19.260	203	30.38	150	16.664	113	64.26	323
26	51.192	214	62.66	35	5.189	180	32.73	306	19.463	275	28.88	121	16.777	168	61.03	329
Dez. 6	51.406	260	63.01	61	5.369	227	29.67	306	19.738	340	27.67	88	16.945	219	57.74	327
16	51.666	297	63.62	87	5.596	269	26.61	296	20.078	395	26.79	49	17.164	265	54.47	314
26	51.963	326	64.49	110	5.865	301	23.65	276	20.473	436	26.30	9	17.429	302	51.33	293
36	52.289		65.59		6.166		20.89		20.909		26.21		17.731		48.40	
Mittl. Ort	50.685		61.60		5.241		39.94		19.184		29.10		17.026		68.30	
sec δ, tg δ	1.104		−0.468		1.124		+0.513		1.620		−1.275		1.199		+0.662	
a, a′	+3.5		−14.1		+2.6		−14.0		+4.3		−13.6		+2.4		−13.3	
b, b′	+0.02		+ 0.71		−0.02		+ 0.71		+0.06		+ 0.73		−0.03		+ 0.75	

Tag	560) γ Triang. austr. AR.		560) Dekl.		565) ι H. Ursae min. AR.		565) Dekl.		564) β Librae AR.		564) Dekl.		566) φ¹ Lupi AR.		566) Dekl.	
1945	15^h 13^m		−68° 28′		15^h 13^m		+67° 32′		15^h 14^m		−9° 10′		15^h 18^m		−36° 3′	
	s		″		s		″		s		″		s		″	
Jan. 1	40.90	70	21.00	51	56.99	54	70.63	276	0.725	303	44.66	169	16.272	358	33.05	65
11	41.60	73	20.49	2	57.53	60	67.87	221	1.028	317	46.35	170	16.630	376	33.70	92
21	42.33	74	20.47	46	58.13	64	65.66	161	1.345	321	48.05	165	17.006	381	34.62	114
31	43.07	75	20.93	93	58.77	65	64.05	95	1.666	317	49.70	154	17.387	378	35.76	132
Febr. 10	43.82	73	21.86	137	59.42	65	63.10	26	1.983	307	51.24	139	17.765	366	37.08	147
20	44.55	70	23.23	175	60.07	61	62.84	41	2.290	291	52.63	120	18.131	348	38.55	157
März 2	45.25	65	24.98	210	60.68	58	63.25	106	2.581	269	53.83	98	18.479	325	40.12	162
12	45.90	59	27.08	239	61.26	51	64.31	165	2.850	246	54.81	76	18.804	299	41.74	165
22	46.49	53	29.47	262	61.77	44	65.96	215	3.096	220	55.57	54	19.103	269	43.39	164
Apr. 1	47.02	46	32.09	279	62.21	35	68.11	257	3.316	193	56.11	33	19.372	238	45.03	161
11	47.48	39	34.88	292	62.56	26	70.68	286	3.509	165	56.44	14	19.610	206	46.64	156
21	47.87	30	37.80	298	62.82	16	73.54	305	3.674	138	56.58	2	19.816	171	48.20	150
Mai 1	48.17	23	40.78	298	62.98	6	76.59	312	3.812	109	56.56	16	19.987	137	49.70	142
11	$_{11}$48.40	13	43.76	292	$_{11}$63.04	2	79.71	309	$_{11}$3.921	80	56.40	26	$_{12}$20.124	101	51.12	132
20	48.53	4	46.68	281	63.02	12	82.80	294	4.001	51	56.14	34	20.225	64	52.44	121
30	48.57	5	49.49	264	62.90	20	85.74	271	4.052	22	55.80	39	20.289	27	53.65	108
Juni 9	48.52	13	52.13	239	62.70	28	88.45	239	4.074	8	55.41	42	20.316	12	54.73	94
19	48.39	21	54.52	210	62.42	35	90.84	201	4.066	37	54.99	44	20.304	49	55.67	76
29	48.18	30	56.62	175	62.07	41	92.85	158	4.029	65	54.55	45	20.255	84	56.43	59
Juli 9	47.88	36	58.37	136	61.66	46	94.43	111	3.964	91	54.10	44	20.171	118	57.02	38
19	47.52	42	59.73	91	61.20	49	95.54	60	3.873	112	53.66	42	20.053	146	57.40	16
29	47.10	46	60.64	45	60.71	52	96.14	7	3.761	131	53.24	40	19.907	169	57.56	6
Aug. 8	46.64	49	61.09	3	60.19	53	96.21	45	3.630	144	52.84	36	19.738	185	57.50	29
18	46.15	50	61.06	51	59.66	53	95.76	97	3.486	150	52.48	32	19.553	193	57.21	50
28	45.65	48	60.55	99	59.13	51	94.79	149	3.336	148	52.16	25	19.360	190	56.71	71
Sept. 7	45.17	44	59.56	142	58.62	48	93.30	196	3.188	138	51.91	17	19.170	177	56.00	88
17	44.73	38	58.14	181	58.14	44	91.34	242	3.050	119	51.74	7	18.993	154	55.12	101
27	44.35	31	56.33	214	57.70	38	88.92	284	2.931	91	51.67	6	18.839	119	54.11	110
Okt. 7	44.04	21	54.19	237	57.32	30	86.08	319	2.840	56	51.73	22	18.720	74	53.01	113
17	43.83	10	51.82	251	57.02	22	82.89	350	2.784	13	51.95	40	18.646	23	51.88	110
27	43.73	2	49.31	255	56.80	12	79.39	373	2.771	34	52.35	60	18.623	35	50.78	101
Nov. 6	43.75	15	46.76	248	56.68	1	75.66	387	2.805	84	52.95	81	18.658	96	49.77	85
16	43.90	28	44.28	231	56.67	9	71.79	393	2.889	135	53.76	103	18.754	158	48.92	64
26	44.18	39	41.97	204	56.76	21	67.86	387	3.024	184	54.79	124	18.912	216	48.28	38
Dez. 6	44.57	50	39.93	168	56.97	31	63.99	372	3.208	227	56.03	142	19.128	268	47.90	10
16	45.07	59	38.25	127	57.28	41	60.27	344	3.435	265	57.45	157	19.396	313	47.80	19
26	45.66	67	36.98	80	57.69	50	56.83	306	3.700	293	59.02	166	19.709	346	47.99	50
36	46.33		36.18		58.19		53.77		3.993		60.68		20.055		48.49	
Mittl. Ort	44.61		42.03		59.79		79.16		2.587		52.47		18.449		47.77	
sec δ, tg δ	2.726		−2.536		2.619		+2.421		1.013		−0.162		1.237		−0.728	
a, *a′*	+5.6		−13.3		+0.7		−13.3		+3.2		−13.3		+3.8		−13.0	
b, *b′*	+0.11		+ 0.75		−0.11		+ 0.75		+0.01		+ 0.75		+0.03		+ 0.76	

Tag	569) γ Ursae min. AR.		Dekl.		568) μ Bootis *pr* AR.		Dekl.		571) ι Draconis AR.		Dekl.		572) β Coronae bor. AR.		Dekl.	
1945	$15^h\ 20^m$		+72° 1′		$15^h\ 22^m$		+37° 33′		$15^h\ 23^m$		+59° 9′		$15^h\ 25^m$		+29° 17′	
	s		″		s		″		s		″		s		″	
Jan. 1	44.54	63	38.51	276	22.712	319	64.70	281	39.665	421	21.91	290	31.676	301	37.14	271
11	45.17	70	35.75	222	23.031	343	61.89	242	40.086	465	19.01	239	31.977	323	34.43	239
21	45.87	76	33.53	161	23.374	358	59.47	195	40.551	493	16.62	182	32.300	334	32.04	197
31	46.63	78	31.92	96	23.732	360	57.52	141	41.044	505	14.80	118	32.634	337	30.07	149
Febr. 10	47.41	78	30.96	27	24.092	354	56.11	84	41.549	501	13.62	52	32.971	330	28.58	98
20	48.19	76	30.69	41	24.446	338	55.27	25	42.050	483	13.10	16	33.301	315	27.60	44
März 2	48.95	70	31.10	106	24.784	314	55.02	34	42.533	450	13.26	81	33.616	294	27.16	9
12	49.65	63	32.16	165	25.098	285	55.36	88	42.983	406	14.07	141	33.910	269	27.25	61
22	50.28	54	33.81	216	25.383	252	56.24	137	43.389	352	15.48	194	34.179	238	27.86	107
Apr. 1	50.82	43	35.97	258	25.635	215	57.61	179	43.741	292	17.42	237	34.417	206	28.93	148
11	51.25	32	38.55	289	25.850	176	59.40	213	44.033	227	19.79	271	34.623	173	30.41	179
21	51.57	20	41.44	307	26.026	136	61.53	236	44.260	159	22.50	294	34.796	137	32.20	204
Mai 1	51.77	8	44.51	316	26.162	95	63.89	250	44.419	91	25.44	305	34.933	101	34.24	220
11	$_{12}$ 51.85	5	47.67	312	$_{13}$ 26.257	55	66.39	256	$_{13}$ 44.510	22	28.49	305	$_{14}$ 35.034	66	36.44	226
20	51.80	15	50.79	298	26.312	15	68.95	252	44.532	44	31.54	296	35.100	31	38.70	225
30	51.65	27	53.77	275	26.327	24	71.47	240	44.488	107	34.50	277	35.131	4	40.95	217
Juni 9	51.38	36	56.52	244	26.303	60	73.87	220	44.381	166	37.27	249	35.127	39	43.12	201
19	51.02	45	58.96	206	26.243	96	76.07	195	44.215	219	39.76	216	35.088	71	45.13	180
29	50.57	52	61.02	162	26.147	128	78.02	164	43.996	267	41.92	175	35.017	101	46.93	154
Juli 9	50.05	59	62.64	115	26.019	156	79.66	129	43.729	307	43.67	131	34.916	128	48.47	124
19	49.46	63	63.79	64	25.863	181	80.95	91	43.422	340	44.98	83	34.788	153	49.71	92
29	48.83	66	64.43	12	25.682	200	81.86	50	43.082	363	45.81	33	34.635	171	50.63	56
Aug. 8	48.17	69	64.55	41	25.482	212	82.36	8	42.719	378	46.14	18	34.464	184	51.19	19
18	47.48	68	64.14	93	25.270	218	82.44	35	42.341	382	45.96	69	34.280	192	51.38	19
28	46.80	66	63.21	145	25.052	216	82.09	78	41.959	374	45.27	120	34.088	190	51.19	57
Sept. 7	46.14	63	61.76	193	24.836	204	81.31	120	41.585	355	44.07	169	33.898	181	50.62	96
17	45.51	57	59.83	239	24.632	184	80.11	161	41.230	324	42.38	215	33.717	162	49.66	133
27	44.94	50	57.44	281	24.448	154	78.50	201	40.906	281	40.23	258	33.555	135	48.33	169
Okt. 7	44.44	42	54.63	317	24.294	116	76.49	238	40.625	226	37.65	297	33.420	100	46.64	205
17	44.02	31	51.46	347	24.178	70	74.11	270	40.399	160	34.68	330	33.320	56	44.59	236
27	43.71	19	47.99	371	24.108	17	71.41	298	40.239	86	31.38	356	33.264	8	42.23	263
Nov. 6	43.52	7	44.28	386	24.091	40	68.43	321	40.153	5	27.82	375	33.256	45	39.60	287
16	43.45	7	40.42	391	24.131	99	65.22	335	40.148	79	24.07	385	33.301	100	36.73	305
26	43.52	20	36.51	387	24.230	157	61.87	342	40.227	165	20.22	384	33.401	154	33.68	313
Dez. 6	43.72	33	32.64	370	24.387	212	58.45	339	40.392	247	16.38	374	33.555	204	30.55	315
16	44.05	46	28.94	344	24.599	260	55.06	325	40.639	321	12.64	351	33.759	249	27.40	306
26	44.51	57	25.50	306	24.859	301	51.81	303	40.960	387	9.13	317	34.008	285	24.34	289
36	45.08		22.44		25.160		48.78		41.347		5.96		34.293		21.45	
Mittl. Ort	47.83		47.07		24.668		68.64		42.078		29.23		33.580		39.29	
sec δ, tg δ	3.241		+3.083		1.262		+0.769		1.951		+1.675		1.147		+0.561	
a, *a′*	−0.1		−12.8		+2.3		−12.7		+1.3		−12.6		+2.5		−12.5	
b, *b′*	−0.13		+ 0.77		−0.03		+ 0.77		−0.07		+ 0.78		−0.02		+ 0.78	

Scheinbare Sternörter 1945

Tag		573) ν^1 Bootis AR.		573) ν^1 Bootis Dekl.		578) α Coronae bor. AR.		578) α Coronae bor. Dekl.		1410) 115 G. Lupi AR.		1410) 115 G. Lupi Dekl.		577) γ Librae AR.		577) γ Librae Dekl.	
1945		$15^h\ 28^m$		$+41°\ 0'$		$15^h\ 32^m$		$+26°\ 53'$		$15^h\ 32^m$		$-44°\ 12'$		$15^h\ 32^m$		$-14°\ 36'$	
		s		″		s		″		s		″		s		″	
Jan.	1	55.089	323	66.36	289	19.533	294	53.83	270	22.963	386	34.43	18	24.701	300	18.34	141
	11	55.412	350	63.47	248	19.827	316	51.13	239	23.349	409	34.61	50	25.001	317	19.75	147
	21	55.762	367	60.99	200	20.143	328	48.74	200	23.758	419	35.11	80	25.318	325	21.22	148
	31	56.129	373	58.99	144	20.471	331	46.74	155	24.177	420	35.91	107	25.643	324	22.70	144
Febr.	10	56.502	367	57.55	85	20.802	326	45.19	106	24.597	410	36.98	129	25.967	316	24.14	134
	20	56.869	353	56.70	23	21.128	312	44.13	53	25.007	394	38.27	147	26.283	302	25.48	121
März	2	57.222	331	56.47	$\overline{37}$	21.440	293	43.60	1	25.401	371	39.74	162	26.585	285	26.69	106
	12	57.553	301	56.84	93	21.733	269	43.59	$\overline{49}$	25.772	345	41.36	174	26.870	263	27.75	89
	22	57.854	266	57.77	144	22.002	241	44.08	95	26.117	314	43.10	180	27.133	239	28.64	70
Apr.	1	58.120	229	59.21	187	22.243	210	45.03	136	26.431	281	44.90	185	27.372	214	29.34	54
	11	58.349	187	61.08	222	22.453	179	46.39	168	26.712	246	46.75	186	27.586	187	29.88	38
	21	58.536	146	63.30	248	22.632	144	48.07	193	26.958	208	48.61	185	27.773	160	30.26	24
Mai	1	58.682	102	65.78	262	22.776	110	50.00	209	27.166	168	50.46	181	27.933	132	30.50	11
	11	58.784	59	68.40	268	22.886	76	52.09	218	27.334	128	52.27	174	28.065	101	30.61	2
	20	[14] 58.843	17	71.08	264	[15] 22.962	40	54.27	218	[15] 27.462	84	54.01	166	[15] 28.166	72	30.63	$\overline{5}$
	30	58.860	$\overline{25}$	73.72	252	23.002	6	56.45	211	27.546	40	55.67	153	28.238	40	30.58	12
Juni	9	58.835	65	76.24	232	23.008	$\overline{27}$	58.56	197	27.586	$\overline{4}$	57.20	137	28.278	8	30.46	17
	19	58.770	102	78.56	206	22.981	60	60.53	178	27.582	49	58.57	120	28.286	$\overline{23}$	30.29	20
	29	58.668	137	80.62	173	22.921	91	62.31	153	27.533	91	59.77	98	28.263	54	30.09	24
Juli	9	58.531	168	82.35	137	22.830	120	63.84	126	27.442	131	60.75	74	28.209	83	29.85	27
	19	58.363	194	83.72	97	22.710	143	65.10	95	27.311	166	61.49	47	28.126	109	29.58	29
	29	58.169	215	84.69	55	22.567	164	66.05	61	27.145	194	61.96	19	28.017	130	29.29	31
Aug.	8	57.954	229	85.24	11	22.403	179	66.66	25	26.951	215	62.15	$\overline{10}$	27.887	147	28.98	32
	18	57.725	235	85.35	$\overline{35}$	22.224	186	66.91	$\overline{10}$	26.736	225	62.05	39	27.740	155	28.66	33
	28	57.490	234	85.00	79	22.038	186	66.81	48	26.511	226	61.66	68	27.585	157	28.33	32
Sept.	7	57.256	223	84.21	123	21.852	178	66.33	84	26.285	214	60.98	93	27.428	150	28.01	29
	17	57.033	203	82.98	166	21.674	161	65.49	121	26.071	188	60.05	115	27.278	132	27.72	24
	27	56.830	172	81.32	207	21.513	136	64.28	157	25.883	153	58.90	132	27.146	106	27.48	16
Okt.	7	56.658	134	79.25	245	21.377	101	62.71	191	25.730	105	57.58	144	27.040	72	27.32	6
	17	56.524	86	76.80	279	21.276	59	60.80	223	25.625	47	56.14	147	26.968	30	27.26	$\overline{8}$
	27	56.438	32	74.01	308	21.217	11	58.57	252	25.578	$\overline{17}$	54.67	144	26.938	18	27.34	25
Nov.	6	56.406	$\overline{27}$	70.93	331	21.206	$\overline{40}$	56.05	275	25.595	84	53.23	134	26.956	70	27.59	44
	16	56.433	88	67.62	345	21.246	94	53.30	293	25.679	153	51.89	116	27.026	121	28.03	65
	26	56.521	149	64.17	352	21.340	148	50.37	304	25.832	219	50.73	93	27.147	172	28.68	85
Dez.	6	56.670	206	60.65	349	21.488	197	47.33	307	26.051	278	49.80	65	27.319	218	29.53	105
	16	56.876	259	57.16	335	21.685	241	44.26	302	26.329	330	49.15	33	27.537	258	30.58	122
	26	57.135	302	53.81	310	21.926	278	41.24	285	26.659	371	48.82	1	27.795	288	31.80	137
	36	57.437		50.71		22.204		38.39		27.030		48.81		28.083		33.17	
Mittl. Ort		57.111		70.79		21.451		55.35		25.434		50.23		26.691		27.17	
sec δ, tg δ		1.325		+0.870		1.121		+0.507		1.395		−0.973		1.033		−0.261	
a, a'		+2.2		−12.3		+2.5		−12.0		+4.1		−12.0		+3.4		−12.0	
b, b'		−0.04		+0.79		−0.02		+0.80		+0.04		+0.80		+0.01		+0.80	

Tag	582) α Serpentis AR.		582) α Serpentis Dekl.		583) β Serpentis AR.		583) β Serpentis Dekl.		590) ζ Ursae min. AR.		590) ζ Ursae min. Dekl.		584) κ Serpentis AR.		584) κ Serpentis Dekl.	
1945	$15^h 41^m$		$+6° 35'$		$15^h 43^m$		$+15° 35'$		$15^h 45^m$		$+77° 57'$		$15^h 46^m$		$+18° 18'$	
	s		″		s		″		s		″		s		″	
Jan. 1	31.455	279	53.86	216	36.902	277	34.88	245	53.88	79	44.80	291	13.779	277	37.39	253
11	31.734	298	51.70	203	37.179	299	32.43	224	54.67	92	41.89	241	14.056	299	34.86	230
21	32.032	308	49.67	183	37.478	311	30.19	195	55.59	102	39.48	183	14.355	312	32.56	199
31	32.340	311	47.84	156	37.789	314	28.24	160	56.61	109	37.65	120	14.667	316	30.57	162
Febr. 10	32.651	305	46.28	125	38.103	310	26.64	121	57.70	112	36.45	53	14.983	312	28.95	120
20	32.956	294	45.03	90	38.413	299	25.43	78	58.82	110	35.92	15	15.295	302	27.75	75
März 2	33.250	277	44.13	54	38.712	283	24.65	33	59.92	105	36.07	81	15.597	286	27.00	28
12	33.527	257	43.59	18	38.995	261	24.32	$\overline{10}$	60.97	95	36.88	143	15.883	265	26.72	$\overline{18}$
22	33.784	234	43.41	$\overline{17}$	39.256	238	24.42	51	61.92	84	38.31	196	16.148	241	26.90	60
Apr. 1	34.018	209	43.58	48	39.494	212	24.93	87	62.76	70	40.27	242	16.389	215	27.50	97
11	34.227	183	44.06	74	39.706	185	25.80	117	63.46	54	42.69	277	16.604	187	28.47	130
21	34.410	156	44.80	96	39.891	155	26.97	141	64.00	36	45.46	300	16.791	157	29.77	154
Mai 1	34.566	126	45.76	112	40.046	124	28.38	159	64.36	18	48.46	313	16.948	126	31.31	172
11	$_{18}$34.692	98	46.88	122	$_{18}$40.170	94	29.97	168	$_{19}$64.54	$\overline{1}$	51.59	315	$_{19}$17.074	94	33.03	182
20	34.790	67	48.10	127	40.264	62	31.65	173	64.53	18	54.74	306	17.168	63	34.85	185
30	34.857	36	49.37	127	40.326	30	33.38	170	64.35	35	57.80	286	17.231	29	36.70	183
Juni 9	34.893	5	50.64	122	40.356	$\overline{2}$	35.08	161	64.00	51	60.66	260	17.260	$\overline{4}$	38.53	174
19	34.898	$\overline{25}$	51.86	115	40.354	34	36.69	149	63.49	65	63.26	225	17.256	36	40.27	159
29	34.873	56	53.01	103	40.320	64	38.18	132	62.84	78	65.51	185	17.220	67	41.86	141
Juli 9	34.817	84	54.04	90	40.256	93	39.50	112	62.06	89	67.36	140	17.153	96	43.27	119
19	34.733	109	54.94	73	40.163	119	40.62	90	61.17	96	68.76	91	17.057	123	44.46	95
29	34.624	130	55.67	57	40.044	140	41.52	64	60.21	103	69.67	40	16.934	144	45.41	67
Aug. 8	34.494	146	56.24	37	39.904	156	42.16	37	59.18	106	70.07	$\overline{12}$	16.790	161	46.08	38
18	34.348	157	56.61	17	39.748	167	42.53	10	58.12	108	69.95	64	16.629	171	46.46	9
28	34.191	159	56.78	$\overline{4}$	39.581	169	42.63	$\overline{19}$	57.04	106	69.31	116	16.458	174	46.55	$\overline{22}$
Sept. 7	34.032	153	56.74	25	39.412	164	42.44	48	55.98	103	68.15	165	16.284	169	46.33	54
17	33.879	139	56.49	49	39.248	149	41.96	79	54.95	96	66.50	213	16.115	155	45.79	86
27	33.740	115	56.00	73	39.099	125	41.17	108	53.99	87	64.37	255	15.960	131	44.93	117
Okt. 7	33.625	84	55.27	97	38.974	95	40.09	137	53.12	75	61.82	295	15.829	101	43.76	149
17	33.541	45	54.30	122	38.879	55	38.72	167	52.37	61	58.87	329	15.728	61	42.27	178
27	33.496	1	53.08	146	38.824	10	37.05	193	51.76	45	55.58	354	15.667	16	40.49	205
Nov. 6	33.495	$\overline{48}$	51.62	169	38.814	$\overline{39}$	35.12	217	51.31	28	52.04	374	15.651	$\overline{34}$	38.44	230
16	33.543	98	49.93	189	38.853	89	32.95	237	51.03	8	48.30	384	15.685	85	36.14	251
26	33.641	148	48.04	206	38.942	140	30.58	252	50.95	$\overline{12}$	44.46	384	15.770	136	33.63	265
Dez. 6	33.789	193	45.98	218	39.082	187	28.06	261	51.07	32	40.62	373	15.906	183	30.98	272
16	33.982	233	43.80	223	39.269	229	25.45	262	51.39	50	36.89	352	16.089	226	28.26	273
26	34.215	265	41.57	222	39.498	264	22.83	254	51.89	69	33.37	318	16.315	262	25.53	264
36	34.480		39.35		39.762		20.29		52.58		30.19		16.577		22.89	
Mittl. Ort	33.381		50.59		38.831		33.75		58.55		52.46		15.722		36.87	
sec δ, tg δ	1.007		+0.116		1.038		+0.279		4.796		+4.690		1.053		+0.331	
a, *a′*	+2.9		−11.4		+2.8		−11.2		−2.2		−11.1		+2.7		−11.0	
b, *b′*	0.00		+ 0.82		−0.01		+ 0.83		−0.17		+ 0.83		−0.01		+ 0.83	

Tag	585) μ Serpentis AR.		Dekl.		588) ε Serpentis AR.		Dekl.		589) β Triang. austr. AR.		Dekl.		593) ε Coronae bor. AR.		Dekl.	
1945	$15^h\ 46^m$		$-3°\ 15'$		$15^h\ 48^m$		$+4°\ 38'$		$15^h\ 50^m$		$-63°\ 15'$		$15^h\ 55^m$		$+27°\ 1'$	
Jan. 1	42.818	280	42.26	180	2.339	275	34.80	209	12.85	55	28.99	79	16.500	276	68.29	277
11	43.098	299	44.06	176	2.614	295	32.71	197	13.40	59	28.20	35	16.776	302	65.52	249
21	43.397	309	45.82	165	2.909	307	30.74	180	13.99	62	27.85	7	17.078	318	63.03	212
31	43.706	312	47.47	149	3.216	309	28.94	155	14.61	62	27.92	50	17.396	326	60.91	168
Febr. 10	44.018	306	48.96	128	3.525	305	27.39	126	15.23	63	28.42	89	17.722	325	59.23	119
20	44.324	296	50.24	103	3.830	295	26.13	93	15.86	61	29.31	126	18.047	317	58.04	66
März 2	44.620	280	51.27	76	4.125	279	25.20	59	16.47	58	30.57	158	18.364	301	57.38	13
12	44.900	261	52.03	48	4.404	261	24.61	23	17.05	54	32.15	186	18.665	281	57.25	38
22	45.161	240	52.51	21	4.665	238	24.38	9	17.59	51	34.01	211	18.946	257	57.63	86
Apr. 1	45.401	215	52.72	3	4.903	215	24.47	39	18.10	45	36.12	231	19.203	228	58.49	129
11	45.616	191	52.69	25	5.118	188	24.86	66	18.55	40	38.43	247	19.431	199	59.78	165
21	45.807	164	52.44	44	5.306	162	25.52	86	18.95	34	40.90	256	19.630	167	61.43	192
Mai 1	45.971	137	52.00	58	5.468	134	26.38	102	19.29	27	43.46	263	19.797	132	63.35	212
11	19 46.108	108	51.42	68	19 5.602	105	27.40	113	20 19.56	20	46.09	264	19.929	99	65.47	222
20*)	46.216	78	50.74	74	5.707	74	28.53	119	19.76	14	48.73	259	20.028	63	67.69	226
30	46.294	47	50.00	77	5.781	43	29.72	119	19.90	5	51.32	249	21 20.091	26	69.95	221
Juni 9	46.341	16	49.23	77	5.824	12	30.91	115	19.95	2	53.81	233	20.117	9	72.16	210
19	46.357	16	48.46	73	5.836	19	32.06	109	19.93	9	56.14	212	20.108	44	74.26	192
29	46.341	46	47.73	69	5.817	50	33.15	99	19.84	17	58.26	186	20.064	77	76.18	169
Juli 9	46.295	76	47.04	62	5.767	79	34.14	86	19.67	23	60.12	154	19.987	109	77.87	142
19	46.219	102	46.42	54	5.688	105	35.00	72	19.44	29	61.66	117	19.878	138	79.29	112
29	46.117	125	45.88	45	5.583	128	35.72	55	19.15	34	62.83	78	19.740	161	80.41	79
Aug. 8	45.992	143	45.43	36	5.455	145	36.27	39	18.81	37	63.61	35	19.579	179	81.20	43
18	45.849	153	45.07	24	5.310	156	36.66	20	18.44	40	63.96	10	19.400	191	81.63	7
28	45.696	157	44.83	13	5.154	159	36.86	1	18.04	40	63.86	54	19.209	196	81.70	30
Sept. 7	45.539	153	44.70	1	4.995	155	36.87	19	17.64	38	63.32	96	19.013	190	81.40	69
17	45.386	138	44.71	15	4.840	141	36.68	41	17.26	35	62.36	136	18.823	177	80.71	105
27	45.248	115	44.86	32	4.699	119	36.27	63	16.91	29	61.00	170	18.646	155	79.66	143
Okt. 7	45.133	84	45.18	50	4.580	88	35.64	86	16.62	23	59.30	198	18.491	123	78.23	178
17	45.049	45	45.68	69	4.492	50	34.78	110	16.39	14	57.32	217	18.368	83	76.45	212
27	45.004	1	46.37	90	4.442	5	33.68	134	16.25	4	55.15	228	18.285	37	74.33	242
Nov. 6	45.005	49	47.27	110	4.437	43	32.34	156	16.21	6	52.87	228	18.248	14	71.91	267
16	45.054	99	48.37	131	4.480	93	30.78	176	16.27	17	50.59	219	18.262	68	69.24	288
26	45.153	149	49.68	149	4.573	142	29.02	194	16.44	27	48.40	201	18.330	121	66.36	302
Dez. 6	45.302	194	51.17	164	4.715	188	27.08	206	16.71	36	46.39	174	18.451	172	63.34	308
16	45.496	234	52.81	175	4.903	229	25.02	213	17.07	45	44.65	141	18.623	219	60.26	304
26	45.730	267	54.56	181	5.132	261	22.89	214	17.52	52	43.24	102	18.842	258	57.22	291
36	45.997		56.37		5.393		20.75		18.04		42.22		19.100		54.31	
Mittl. Ort	44.799		47.89		4.295		31.11		16.53		46.83		18.502		69.51	
sec δ, tg δ	1.002		−0.057		1.003		+0.081		2.223		−1.985		1.123		+0.510	
a, *a'*	+3.1		−11.0		+3.0		−10.9		+5.3		−10.7		+2.5		−10.4	
b, *b'*	0.00		+ 0.84		0.00		+ 0.84		+0.07		+ 0.84		−0.02		+ 0.86	

*) Bei Stern 593) lies Mai 21.

Tag	594) δ Scorpii				598) θ Draconis				597) β Scorpii pr				603) δ Ophiuchi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	15h 57m		−22° 27′		16h 0m		+58° 42′		16h 2m		−19° 39′		16h 11m		−3° 33′	
	s		″		s		″		s		″		s		″	
Jan. 1	2.391	299	50.41	94	48.639	363	35.95	318	11.884	290	14.24	103	25.529	264	9.91	172
11	2.690	320	51.35	106	49.002	416	32.77	274	12.174	312	15.27	113	25.793	286	11.63	168
21	3.010	332	52.41	114	49.418	456	30.03	221	12.486	325	16.40	119	26.079	301	13.31	159
31	3.342	336	53.55	119	49.874	481	27.82	161	12.811	329	17.59	120	26.380	307	14.90	143
Febr. 10	3.678	332	54.74	118	50.355	490	26.21	95	13.140	326	18.79	117	26.687	307	16.33	123
20	4.010	322	55.92	114	50.845	485	25.26	28	13.466	318	19.96	109	26.994	300	17.56	99
März 2	4.332	308	57.06	107	51.330	465	24.98	$\overline{39}$	13.784	304	21.05	100	27.294	288	18.55	72
12	4.640	289	58.13	99	51.795	433	25.37	103	14.088	287	22.05	88	27.582	273	19.27	44
22	4.929	268	59.12	88	52.228	390	26.40	161	14.375	266	22.93	76	27.855	254	19.71	18
Apr. 1	5.197	245	60.00	78	52.618	339	28.01	211	14.641	244	23.69	63	28.109	234	19.89	$\overline{7}$
11	5.442	220	60.78	67	52.957	281	30.12	252	14.885	220	24.32	51	28.343	211	19.82	30
21	5.662	192	61.45	59	53.238	219	32.64	284	15.105	194	24.83	41	28.554	186	19.52	47
Mai 1	5.854	164	62.04	50	53.457	152	35.48	303	15.299	166	25.24	32	28.740	160	19.05	62
11	6.018	133	62.54	42	53.609	84	38.51	312	15.465	135	25.56	24	28.900	131	18.43	73
21	6.151	101	62.96	36	53.693	17	41.63	310	15.600	104	25.80	18	29.031	102	17.70	78
	22				22				23				25			
30	6.252	66	63.32	30	53.710	$\overline{49}$	44.73	299	15.704	70	25.98	13	29.133	69	16.92	81
Juni 9	6.318	31	63.62	25	53.661	113	47.72	279	15.774	36	26.11	8	29.202	37	16.11	80
19	6.349	$\overline{4}$	63.87	18	53.548	173	50.51	250	15.810	1	26.19	5	29.239	3	15.31	76
29	6.345	40	64.05	12	53.375	229	53.01	216	15.811	$\overline{35}$	26.24	0	29.242	$\overline{30}$	14.55	72
Juli 9	6.305	73	64.17	6	53.146	278	55.17	176	15.776	69	26.24	5	29.212	62	13.83	64
19	6.232	104	64.23	$\overline{2}$	52.868	320	56.93	131	15.707	99	26.19	8	29.150	92	13.19	55
29	6.128	131	64.21	10	52.548	354	58.24	84	15.608	126	26.11	14	29.058	118	12.64	47
Aug. 8	5.997	152	64.11	18	52.194	379	59.08	33	15.482	148	25.97	19	28.940	139	12.17	36
18	5.845	166	63.93	25	51.815	393	59.41	$\overline{18}$	15.334	162	25.78	24	28.801	155	11.81	25
28	5.679	171	63.68	33	51.422	397	59.23	69	15.172	169	25.54	28	28.646	161	11.56	13
Sept. 7	5.508	168	63.35	38	51.025	387	58.54	120	15.003	165	25.26	31	28.485	161	11.43	0
17	5.340	153	62.97	41	50.638	365	57.34	169	14.838	153	24.95	32	28.324	151	11.43	14
27	5.187	129	62.56	43	50.273	330	55.65	216	14.685	130	24.63	31	28.173	130	11.57	30
Okt. 7	5.058	95	62.13	39	49.943	284	53.49	260	14.555	97	24.32	25	28.043	102	11.87	46
17	4.963	53	61.74	32	49.659	225	50.89	298	14.458	57	24.07	18	27.941	66	12.33	65
27	4.910	5	61.42	23	49.434	156	47.91	331	14.401	10	23.89	6	27.875	22	12.98	84
Nov. 6	4.905	$\overline{48}$	61.19	8	49.278	79	44.60	357	14.391	$\overline{42}$	23.83	$\overline{8}$	27.853	$\overline{26}$	13.82	103
16	4.953	102	61.11	$\overline{10}$	49.199	$\overline{4}$	41.03	375	14.433	95	23.91	26	27.879	75	14.85	123
26	5.055	156	61.21	28	49.203	89	37.28	383	14.528	148	24.17	44	27.954	125	16.08	141
Dez. 6	5.211	206	61.49	48	49.292	173	33.45	381	14.676	197	24.61	63	28.079	172	17.49	155
16	5.417	249	61.97	68	49.465	252	29.64	366	14.873	240	25.24	81	28.251	214	19.04	167
26	5.666	284	62.65	85	49.717	325	25.98	340	15.113	276	26.05	96	28.465	249	20.71	173
36	5.950		63.50		50.042		22.58		15.389		27.01		28.714		22.44	
Mittl. Ort	4.585		60.26		51.216		41.73		14.067		23.25		27.608		15.09	
sec δ, tg δ	1.082		−0.414		1.926		+1.646		1.062		−0.357		1.002		−0.062	
a, a′	+3.5		−10.2		+1.2		−10.0		+3.5		−9.9		+3.1		−9.1	
b, b′	+0.01		+0.86		−0.05		+0.87		+0.01		+0.87		0.00		+0.89	

Tag	606) 19 Ursae min. AR.		606) Dekl.		605) ε Ophiuchi AR.		605) Dekl.		604) γ² Normae AR.		604) Dekl.		608) τ Herculis AR.		608) Dekl.	
1945	16h 12m		+76° 0′		16h 15m		−4° 33′		16h 15m		−50° 1′		16h 18m		+46° 26′	
	s		″		s		″		s		″		s		″	
Jan. 1	17.34	60	54.38	316	22.376	263	30.32	166	39.842	386	7.33	51	2.820	287	32.70	321
11	17.94	74	51.22	271	22.639	285	31.98	163	40.228	421	6.82	20	3.107	328	29.49	285
21	18.68	84	48.51	217	22.924	300	33.61	155	40.649	444	6.62	$\overline{12}$	3.435	359	26.64	239
31	19.52	91	46.34	157	23.224	307	35.16	140	41.093	456	6.74	43	3.794	379	24.25	185
Febr. 10	20.43	96	44.77	92	23.531	307	36.56	121	41.549	457	7.17	70	4.173	387	22.40	125
20	21.39	96	43.85	23	23.838	301	37.77	97	42.006	451	7.87	94	4.560	386	21.15	62
März 2	22.35	94	43.62	$\overline{45}$	24.139	290	38.74	72	42.457	436	8.81	117	4.946	373	20.53	$\overline{2}$
12	23.29	88	44.07	108	24.429	275	39.46	46	42.893	416	9.98	136	5.319	353	20.55	64
22	24.17	79	45.15	167	24.704	258	39.92	20	43.309	391	11.34	152	5.672	325	21.19	123
Apr. 1	24.96	68	46.82	217	24.962	238	40.12	$\overline{5}$	43.700	360	12.86	166	5.997	292	22.42	174
11	25.64	56	48.99	259	25.200	215	40.07	26	44.060	326	14.52	175	6.289	252	24.16	218
21	26.20	41	51.58	290	25.415	190	39.81	44	44.386	289	16.27	183	6.541	210	26.34	251
Mai 1	26.61	26	54.48	309	25.605	164	39.37	58	44.675	247	18.10	188	6.751	164	28.85	276
11	26.87	10	57.57	317	25.769	137	38.79	68	44.922	201	19.98	191	6.915	116	31.61	289
21	26.97	$\overline{5}$	60.74	316	25.906	106	38.11	75	45.123	153	21.89	188	7.031	67	34.50	293
	25				26				26				27			
30	26.92	20	63.90	303	26.012	74	37.36	76	45.276	101	23.77	183	7.098	17	37.43	288
Juni 9	26.72	34	66.93	282	26.086	41	36.60	76	45.377	48	25.60	175	7.115	$\overline{32}$	40.31	274
19	26.38	48	69.75	254	26.127	7	35.84	74	45.425	$\overline{6}$	27.35	161	7.083	80	43.05	252
29	25.90	60	72.29	218	26.134	$\overline{27}$	35.10	68	45.419	61	28.96	144	7.003	124	45.57	223
Juli 9	25.30	71	74.47	176	26.107	59	34.42	61	45.358	112	30.40	123	6.879	167	47.80	189
19	24.59	79	76.23	130	26.048	89	33.81	54	45.246	159	31.63	98	6.712	204	49.69	150
29	23.80	86	77.53	82	25.959	117	33.27	45	45.087	201	32.61	69	6.508	236	51.19	107
Aug. 8	22.94	91	78.35	31	25.842	138	32.82	35	44.886	234	33.30	38	6.272	260	52.26	62
18	22.03	93	78.66	$\overline{21}$	25.704	154	32.47	25	44.652	256	33.68	6	6.012	277	52.88	15
28	21.10	95	78.45	74	25.550	162	32.22	15	44.396	267	33.74	$\overline{28}$	5.735	285	53.03	$\overline{33}$
Sept. 7	20.15	92	77.71	124	25.388	162	32.07	2	44.129	264	33.46	61	5.450	283	52.70	81
17	19.23	89	76.47	174	25.226	151	32.05	$\overline{10}$	43.865	247	32.85	91	5.167	270	51.89	129
27	18.34	81	74.73	221	25.075	133	32.15	25	43.618	215	31.94	118	4.897	246	50.60	175
Okt. 7	17.53	73	72.52	264	24.942	104	32.40	42	43.403	170	30.76	140	4.651	212	48.85	218
17	16.80	62	69.88	302	24.838	68	32.82	59	43.233	114	29.36	155	4.439	167	46.67	259
27	16.18	48	66.86	334	24.770	26	33.41	77	43.119	48	27.81	164	4.272	114	44.08	294
Nov. 6	15.70	33	63.52	360	24.744	$\overline{23}$	34.18	96	43.071	$\overline{26}$	26.17	165	4.158	55	41.14	324
16	15.37	17	59.92	376	24.767	73	35.14	116	43.097	101	24.52	158	4.103	$\overline{10}$	37.90	346
26	15.20	0	56.16	384	24.840	122	36.30	133	43.198	176	22.94	144	4.113	76	34.44	360
Dez. 6	15.20	18	52.32	380	24.962	169	37.63	148	43.374	246	21.50	124	4.189	141	30.84	364
16	15.38	35	48.52	365	25.131	212	39.11	159	43.620	310	20.26	98	4.330	202	27.20	357
26	15.73	51	44.87	339	25.343	247	40.70	166	43.930	363	19.28	69	4.532	259	23.63	340
36	16.24		41.48		25.590		42.36		44.293		18.59		4.791		20.23	
Mittl. Ort	21.73		60.67		24.476		35.63		42.862		21.37		5.108		36.47	
sec δ, tg δ	4.138		+4.016		1.003		−0.080		1.556		−1.193		1.451		+1.052	
a, *a′*	−1.7		−9.1		+3.2		−8.8		+4.5		−8.8		+1.8		−8.6	
b, *b′*	−0.12		+0.89		0.00		+0.90		+0.03		+0.90		−0.03		+0.90	

Tag		609) γ Herculis AR.		609) γ Herculis Dekl.		611) γ Apodis AR.		611) γ Apodis Dekl.	
1945		$16^h\ 19^m$		$+19°\ 16'$		$16^h\ 24^m$		$-78°\ 46'$	
		s		″		s		″	
Jan.	1	27.446	252	52.19	259	48.47	104	23.24	177
	11	27.698	279	49.60	238	49.51	118	21.47	132
	21	27.977	297	47.22	210	50.69	127	20.15	86
	31	28.274	308	45.12	174	51.96	134	19.29	37
Febr.	10	28.582	311	43.38	131	53.30	137	18.92	$\overline{13}$
	20	28.893	306	42.07	85	54.67	137	19.05	60
März	2	29.199	296	41.22	38	56.04	134	19.65	104
	12	29.495	281	40.84	$\overline{9}$	57.38	128	20.69	147
	22	29.776	262	40.93	54	58.66	121	22.16	186
Apr.	1	30.038	239	41.47	95	59.87	112	24.02	219
	11	30.277	215	42.42	130	60.99	99	26.21	248
	21	30.492	187	43.72	159	61.98	86	28.69	272
Mai	1	30.679	157	45.31	179	62.84	71	31.41	291
	11	30.836	126	47.10	193	63.55	55	34.32	303
	21	30.962	93	49.03	199	64.10	37	37.35	309
	30	[27] 31.055	58	51.02	199	[29] 64.47	19	40.44	308
Juni	9	31.113	24	53.01	192	64.66	1	43.52	299
	19	31.137	$\overline{12}$	54.93	179	64.67	$\overline{18}$	46.51	283
	29	31.125	47	56.72	162	64.49	36	49.34	260
Juli	9	31.078	80	58.34	140	64.13	53	51.94	230
	19	30.998	111	59.74	115	63.60	68	54.24	193
	29	30.887	138	60.89	88	62.92	81	56.17	150
Aug.	8	30.749	160	61.77	59	62.11	91	57.67	102
	18	30.589	175	62.36	28	61.20	97	58.69	50
	28	30.414	184	62.64	$\overline{4}$	60.23	101	59.19	$\overline{4}$
Sept.	7	30.230	183	62.60	36	59.22	99	59.15	58
	17	30.047	174	62.24	70	58.23	94	58.57	111
	27	29.873	156	61.54	103	57.29	84	57.46	160
Okt.	7	29.717	128	60.51	135	56.45	71	55.86	204
	17	29.589	92	59.16	167	55.74	54	53.82	238
	27	29.497	50	57.49	196	55.20	34	51.44	265
Nov.	6	29.447	2	55.53	222	54.86	12	48.79	281
	16	29.445	$\overline{49}$	53.31	245	54.74	$\overline{11}$	45.98	285
	26	29.494	101	50.86	262	54.85	34	43.13	279
Dez.	6	29.595	149	48.24	273	55.19	57	40.34	261
	16	29.744	195	45.51	274	55.76	77	37.73	236
	26	29.939	234	42.77	269	56.53	95	35.37	200
	36	30.173		40.08		57.48		33.37	
Mittl. Ort		29.501		51.69		56.75		39.69	
sec δ, tg δ		1.059		+0.350		5.138		−5.040	
a, *a'*		+2.7		−8.5		+9.2		−8.1	
b, *b'*		−0.01		+0.91		+0.14		+0.92	

Tag		616) α Scorpii AR.		616) α Scorpii Dekl.		618) β Herculis AR.		618) β Herculis Dekl.	
1945		$16^h\ 25^m$		$-26°\ 18'$		$16^h\ 27^m$		$+21°\ 36'$	
		s		″		s		″	
Jan.	1	59.462	287	32.69	56	49.125	246	29.59	268
	11	59.749	313	33.25	71	49.371	274	26.91	246
	21	60.062	330	33.96	81	49.645	295	24.45	217
	31	60.392	339	34.77	88	49.940	307	22.28	179
Febr.	10	60.731	340	35.65	93	50.247	312	20.49	135
	20	61.071	336	36.58	93	50.559	309	19.14	88
März	2	61.407	326	37.51	90	50.868	300	18.26	38
	12	61.733	312	38.41	87	51.168	287	17.88	$\overline{11}$
	22	62.045	295	39.28	81	51.455	268	17.99	58
Apr.	1	62.340	275	40.09	75	51.723	247	18.57	100
	11	62.615	251	40.84	69	51.970	222	19.57	137
	21	62.866	227	41.53	64	52.192	195	20.94	168
Mai	1	63.093	198	42.17	59	52.387	164	22.62	189
	11	63.291	167	42.76	55	52.551	133	24.51	205
	21	63.458	134	43.31	51	52.684	99	26.56	211
	30	[29] 63.592	99	43.82	48	[29] 52.783	64	28.67	211
Juni	9	63.691	60	44.30	44	52.847	28	30.78	205
	19	63.751	22	44.74	39	52.875	$\overline{9}$	32.83	191
	29	63.773	$\overline{18}$	45.13	34	52.866	44	34.74	174
Juli	9	63.755	56	45.47	28	52.822	79	36.48	151
	19	63.699	92	45.75	20	52.743	112	37.99	125
	29	63.607	124	45.95	11	52.631	140	39.24	97
Aug.	8	63.483	150	46.06	1	52.491	162	40.21	65
	18	63.333	170	46.07	$\overline{10}$	52.329	180	40.86	34
	28	63.163	181	45.97	20	52.149	190	41.20	$\overline{1}$
Sept.	7	62.982	181	45.77	30	51.959	190	41.19	35
	17	62.801	172	45.47	38	51.769	183	40.84	70
	27	62.629	152	45.09	45	51.586	165	40.14	105
Okt.	7	62.477	121	44.64	47	51.421	138	39.09	139
	17	62.356	81	44.17	47	51.283	103	37.70	172
	27	62.275	33	43.70	41	51.180	61	35.98	202
Nov.	6	62.242	$\overline{20}$	43.29	33	51.119	13	33.96	230
	16	62.262	75	42.96	21	51.106	$\overline{37}$	31.66	253
	26	62.337	130	42.75	5	51.143	89	29.13	271
Dez.	6	62.467	182	42.70	$\overline{12}$	51.232	140	26.42	281
	16	62.649	230	42.82	30	51.372	186	23.61	284
	26	62.879	270	43.12	47	51.558	227	20.77	277
	36	63.149		43.59		51.785		18.00	
Mittl. Ort		61.850		41.97		51.209		29.44	
sec δ, tg δ		1.116		−0.495		1.076		+0.396	
a, *a'*		+3.7		−8.0		+2.6		−7.8	
b, *b'*		+0.01		+0.92		−0.01		+0.92	

Scheinbare Sternörter 1945

Tag	619) A Draconis AR.		619) Dekl.		1432) Pi 16h140 Draco AR.		1432) Dekl.		621) σ Herculis AR.		621) Dekl.		622) ζ Ophiuchi AR.		622) Dekl.	
1945	$16^h\ 28^m$		$+68°\ 52'$		$16^h\ 31^m$		$+60°\ 55'$		$16^h\ 32^m$		$+42°\ 32'$		$16^h\ 34^m$		$-10°\ 27'$	
	s		"		s		"		s		"		s		"	
Jan. 1	1.39	41	68.59	333	35.86	33	72.52	337	17.396	262	55.38	321	5.408	254	20.33	132
11	1.80	50	65.26	293	36.19	39	69.15	300	17.658	302	52.17	289	5.662	280	21.65	133
21	2.30	57	62.33	243	36.58	45	66.15	251	17.960	332	49.28	248	5.942	298	22.98	130
31	2.87	62	59.90	184	37.03	48	63.64	194	18.292	353	46.80	197	6.240	307	24.28	122
Febr. 10	3.49	66	58.06	119	37.51	51	61.70	131	18.645	364	44.83	139	6.547	310	25.50	108
20	4.15	66	56.87	52	38.02	51	60.39	64	19.009	365	43.44	79	6.857	307	26.58	92
März 2	4.81	66	56.35	17	38.53	50	59.75	5	19.374	357	42.65	16	7.164	299	27.50	73
12	5.47	62	56.52	83	39.03	49	59.80	71	19.731	341	42.49	46	7.463	287	28.23	52
22	6.09	57	57.35	144	39.52	44	60.51	132	20.072	319	42.95	103	7.750	272	28.75	32
Apr. 1	6.66	51	58.79	199	39.96	40	61.83	188	20.391	289	43.98	156	8.022	254	29.07	12
11	7.17	42	60.78	245	40.36	34	63.71	235	20.680	256	45.54	201	8.276	234	29.19	6
21	7.59	34	63.23	280	40.70	28	66.06	271	20.936	218	47.55	237	8.510	211	29.13	20
Mai 1	7.93	25	66.03	304	40.98	21	68.77	298	21.154	178	49.92	263	8.721	186	28.93	31
11	8.18	14	69.07	318	41.19	14	71.75	313	21.332	134	52.55	279	8.907	158	28.62	40
21	8.32	4	72.25	322	41.33	7	74.88	319	21.466	88	55.34	287	9.065	128	28.22	45
30*)	(29) 8.36	6	75.47	314	(30) 41.40	1	78.07	313	(30) 21.554	42	58.21	284	9.193	95	27.77	48
Juni 9	8.30	16	78.61	297	41.39	8	81.20	299	21.596	5	61.05	274	(31) 9.288	61	27.29	48
19	8.14	26	81.58	273	41.31	15	84.19	276	21.591	51	63.79	254	9.349	25	26.81	46
29	7.88	33	84.31	241	41.16	22	86.95	245	21.540	95	66.33	229	9.374	10	26.35	43
Juli 9	7.55	42	86.72	202	40.94	27	89.40	209	21.445	137	68.62	198	9.364	46	25.92	40
19	7.13	48	88.74	159	40.67	33	91.49	168	21.308	175	70.60	161	9.318	80	25.52	36
29	6.65	54	90.33	112	40.34	37	93.17	121	21.133	208	72.21	122	9.238	109	25.16	30
Aug. 8	6.11	58	91.45	62	39.97	40	94.38	73	20.925	234	73.43	79	9.129	134	24.86	26
18	5.53	60	92.07	10	39.57	43	95.11	22	20.691	254	74.22	33	8.995	154	24.60	21
28	4.93	62	92.17	42	39.14	44	95.33	30	20.437	264	74.55	12	8.841	165	24.39	16
Sept. 7	4.31	62	91.75	94	38.70	44	95.03	81	20.173	266	74.43	60	8.676	167	24.23	10
17	3.69	59	90.81	146	38.26	43	94.22	133	19.907	256	73.83	106	8.509	160	24.13	2
27	3.10	55	89.35	195	37.83	40	92.89	182	19.651	236	72.77	152	8.349	143	24.11	6
Okt. 7	2.55	50	87.40	241	37.43	35	91.07	229	19.415	205	71.25	196	8.206	117	24.17	17
17	2.05	42	84.99	282	37.08	30	88.78	272	19.210	166	69.29	236	8.089	81	24.34	29
27	1.63	34	82.17	319	36.78	23	86.06	310	19.044	117	66.93	273	8.008	40	24.63	44
Nov. 6	1.29	23	78.98	350	36.55	15	82.96	341	18.927	61	64.20	305	7.968	8	25.07	59
16	1.06	13	75.48	371	36.40	7	79.55	365	18.866	1	61.15	330	7.976	58	25.66	75
26	0.93	0	71.77	383	36.33	2	75.90	380	18.865	61	57.85	346	8.034	109	26.41	92
Dez. 6	0.93	12	67.94	385	36.35	12	72.10	383	18.926	122	54.39	354	8.143	157	27.33	107
16	1.05	23	64.09	375	36.47	20	68.27	377	19.048	181	50.85	351	8.300	201	28.40	119
26	1.28	34	60.34	354	36.67	28	64.50	357	19.229	235	47.34	337	8.501	238	29.59	129
36	1.62		56.80		36.95		60.93		19.464		43.97		8.739		30.88	
Mittl. Ort	4.76		73.83		38.66		77.13		19.659		58.21		7.619		26.27	
sec δ, tg δ	2.776		+2.590		2.059		+1.799		1.357		+0.918		1.017		−0.185	
a, *a'*	−0.1		−7.8		+0.8		−7.5		+1.9		−7.5		+3.3		−7.3	
b, *b'*	−0.07		+0.92		−0.05		+0.93		−0.02		+0.93		0.00		+0.93	

*) Bei Stern 622) lies Mai 31.

Tag	626) η Herculis				625) α Triang. austr.				627) Grb 2377 Draco				628) ε Scorpii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$16^h\ 40^m$		$+39°\ 1'$		$16^h\ 42^m$		$-68°\ 55'$		$16^h\ 44^m$		$+56°\ 52'$		$16^h\ 46^m$		$-34°\ 11'$	
	s		″		s		″		s		″		s		″	
Jan. 1	58.265	246	30.90	318	44.18	58	32.69	161	12.304	286	42.80	343	33.132	288	33.28	1
11	58.511	286	27.72	289	44.76	65	31.08	124	12.590	346	39.37	308	33.420	320	33.29	20
21	58.797	315	24.83	250	45.41	71	29.84	84	12.936	394	36.29	263	33.740	342	33.49	35
31	59.112	336	22.33	202	46.12	75	29.00	42	13.330	430	33.66	208	34.082	356	33.84	50
Febr. 10	59.448	348	20.31	147	46.87	77	28.58	0	13.760	453	31.58	147	34.438	362	34.34	62
20	59.796	349	18.84	88	47.64	77	28.58	40	14.213	461	30.11	82	34.800	361	34.96	70
März 2	60.145	344	17.96	28	48.41	76	28.98	80	14.674	457	29.29	14	35.161	355	35.66	76
12	60.489	331	17.68	33	49.17	74	29.78	116	15.131	440	29.15	53	35.516	344	36.42	81
22	60.820	311	18.01	90	49.91	71	30.94	149	15.571	413	29.68	115	35.860	328	37.23	84
Apr. 1	61.131	285	18.91	142	50.62	66	32.43	179	15.984	375	30.83	172	36.188	310	38.07	87
11	61.416	255	20.33	187	51.28	60	34.22	205	16.359	328	32.55	220	36.498	288	38.94	88
21	61.671	222	22.20	224	51.88	53	36.27	228	16.687	276	34.75	260	36.786	262	39.82	89
Mai 1	61.893	184	24.44	251	52.41	47	38.55	245	16.963	219	37.35	289	37.048	234	40.71	90
11	62.077	144	26.95	270	52.88	38	41.00	259	17.182	157	40.24	308	37.282	201	41.61	90
21	62.221	101	29.65	278	53.26	28	43.59	266	17.339	92	43.32	316	37.483	165	42.51	91
31	²62.322	57	32.43	277	²53.54	20	46.25	268	²17.431	27	46.48	314	³37.648	126	43.42	90
Juni 9	62.379	13	35.20	268	53.74	9	48.93	264	17.458	37	49.62	303	37.774	84	44.32	87
19	62.392	31	37.88	252	53.83	1	51.57	252	17.421	101	52.65	283	37.858	41	45.19	84
29	62.361	75	40.40	229	53.82	11	54.09	235	17.320	162	55.48	256	37.899	3	46.03	77
Juli 9	62.286	116	42.69	199	53.71	20	56.44	212	17.158	217	58.04	222	37.896	48	46.80	69
19	62.170	155	44.68	166	53.51	30	58.56	181	16.941	268	60.26	182	37.848	90	47.49	58
29	62.015	187	46.34	128	53.21	37	60.37	144	16.673	312	62.08	139	37.758	127	48.07	45
Aug. 8	61.828	215	47.62	86	52.84	44	61.81	104	16.361	346	63.47	92	37.631	159	48.52	29
18	61.613	235	48.48	44	52.40	49	62.85	60	16.015	372	64.39	43	37.472	184	48.81	12
28	61.378	247	48.92	1	51.91	52	63.45	12	15.643	387	64.82	9	37.288	199	48.93	5
Sept. 7	61.131	250	48.91	46	51.39	52	63.57	36	15.256	390	64.73	60	37.089	204	48.88	23
17	60.881	243	48.45	92	50.87	49	63.21	84	14.866	379	64.13	111	36.885	197	48.65	40
27	60.638	225	47.53	137	50.38	46	62.37	129	14.487	356	63.02	161	36.688	179	48.25	55
Okt. 7	60.413	198	46.16	179	49.92	39	61.08	168	14.131	321	61.41	208	36.509	149	47.70	67
17	60.215	160	44.37	220	49.53	29	59.40	201	13.810	273	59.33	253	36.360	108	47.03	74
27	60.055	114	42.17	257	49.24	20	57.39	227	13.537	214	56.80	293	36.252	60	46.29	78
Nov. 6	59.941	62	39.60	290	49.04	7	55.12	243	13.323	145	53.87	327	36.192	5	45.51	76
16	59.879	4	36.70	315	48.97	5	52.69	249	13.178	69	50.60	353	36.187	55	44.75	70
26	59.875	55	33.55	334	49.02	19	50.20	245	13.109	11	47.07	371	36.242	114	44.05	59
Dez. 6	59.930	113	30.21	343	49.21	30	47.75	232	13.120	91	43.36	379	36.356	171	43.46	44
16	60.043	170	26.78	343	49.51	43	45.43	211	13.211	170	39.57	375	36.527	223	43.02	28
26	60.213	221	23.35	331	49.94	53	43.32	182	13.381	245	35.82	359	36.750	268	42.74	9
36	60.434		20.04		50.47		41.50		13.626		32.23		37.018		42.65	
Mittl. Ort	60.502		33.05		49.30		46.73		14.962		46.56		35.778		42.68	
sec δ, tg δ	1.287		+0.811		2.782		−2.596		1.830		+1.533		1.209		−0.679	
a, *a′*	+2.1		−6.8		+6.3		−6.6		+1.1		−6.5		+3.9		−6.3	
b, *b′*	−0.02		+0.94		+0.06		+0.94		−0.03		+0.95		+0.01		+0.95	

Scheinbare Sternörter 1945

Tag		629) 49 Herculis AR.		629) 49 Herculis Dekl.		1444) 24 G. Arae AR.		1444) 24 G. Arae Dekl.	
1945		$16^h\ 49^m$		$+15°\ 3'$		$16^h\ 53^m$		$-50°\ 33'$	
		s		"		s		"	
Jan.	1	32.337	227	55.72	244	59.489	350	11.98	90
	11	32.564	256	53.28	229	59.839	393	11.08	63
	21	32.820	278	50.99	206	60.232	425	10.45	35
	31	33.098	293	48.93	175	60.657	446	10.10	8
Febr.	10	33.391	300	47.18	138	61.103	457	10.02	$\overline{19}$
	20	33.691	301	45.80	96	61.560	460	10.21	44
März	2	33.992	297	44.84	52	62.020	455	10.65	67
	12	34.289	286	44.32	8	62.475	442	11.32	89
	22	34.575	273	44.24	$\overline{36}$	62.917	425	12.21	107
Apr.	1	34.848	256	44.60	75	63.342	402	13.28	124
	11	35.104	235	45.35	111	63.744	374	14.52	140
	21	35.339	211	46.46	139	64.118	341	15.92	152
Mai	1	35.550	185	47.85	162	64.459	303	17.44	163
	11	35.735	156	49.47	178	64.762	260	19.07	172
	21	35.891	124	51.25	186	65.022	212	20.79	176
	31	36.015	90	53.11	188	65.234	160	22.55	178
Juni	9	36.105	55	54.99	185	65.394	105	24.33	177
	19	36.160	19	56.84	175	65.499	47	26.10	170
	29	36.179	$\overline{19}$	58.59	161	65.546	$\overline{12}$	27.80	160
Juli	9	36.160	54	60.20	143	65.534	69	29.40	145
	19	36.106	89	61.63	121	65.465	124	30.85	125
	29	36.017	120	62.84	98	65.341	173	32.10	102
Aug.	8	35.897	145	63.82	71	65.168	215	33.12	74
	18	35.752	166	64.53	44	64.953	248	33.86	43
	28	35.586	179	64.97	16	64.705	268	34.29	11
Sept.	7	35.407	183	65.13	$\overline{15}$	64.437	275	34.40	$\overline{22}$
	17	35.224	179	64.98	44	64.162	268	34.18	56
	27	35.045	165	64.54	75	63.894	246	33.62	86
Okt.	7	34.880	142	63.79	106	63.648	209	32.76	113
	17	34.738	110	62.73	135	63.439	159	31.63	135
	27	34.628	71	61.38	164	63.280	98	30.28	151
Nov.	6	34.557	25	59.74	190	63.182	28	28.77	161
	16	34.532	$\overline{23}$	57.84	214	63.154	$\overline{46}$	27.16	162
	26	34.555	72	55.70	233	63.200	122	25.54	157
Dez.	6	34.627	122	53.37	245	63.322	195	23.97	145
	16	34.749	168	50.92	252	63.517	263	22.52	127
	26	34.917	207	48.40	250	63.780	322	21.25	104
	36	35.124		45.90		64.102		20.21	
Mittl. Ort		34.470		54.45		62.794		23.08	
sec δ, tg δ		1.036		+0.269		1.574		−1.216	
a, *a'*		+2.7		−6.1		+4.6		−5.7	
b, *b'*		−0.01		+0.95		+0.02		+0.96	

Tag		631) ζ Arae AR.		631) ζ Arae Dekl.		633) κ Ophiuchi AR.		633) κ Ophiuchi Dekl.	
1945		$16^h\ 53^m$		$-55°\ 54'$		$16^h\ 55^m$		$+9°\ 27'$	
		s		"		s		"	
Jan.	1	59.935	386	8.27	116	1.609	223	34.91	220
	11	60.321	436	7.11	86	1.832	252	32.71	209
	21	60.757	472	6.25	55	2.084	274	30.62	189
	31	61.229	498	5.70	24	2.358	288	28.73	164
Febr.	10	61.727	511	5.46	$\overline{8}$	2.646	296	27.09	132
	20	62.238	515	5.54	38	2.942	297	25.77	95
März	2	62.753	510	5.92	66	3.239	293	24.82	57
	12	63.263	496	6.58	92	3.532	284	24.25	17
	22	63.759	476	7.50	116	3.816	272	24.08	$\overline{23}$
Apr.	1	64.235	450	8.66	137	4.088	257	24.31	58
	11	64.685	418	10.03	157	4.345	237	24.89	90
	21	65.103	380	11.60	173	4.582	215	25.79	116
Mai	1	65.483	336	13.33	186	4.797	190	26.95	137
	11	65.819	286	15.19	196	4.987	163	28.32	152
	21	66.105	232	17.15	203	5.150	132	29.84	160
	31	66.337	172	19.18	206	5.282	99	31.44	162
Juni	9	66.509	109	21.24	204	5.381	64	33.06	160
	19	66.618	43	23.28	196	5.445	29	34.66	152
	29	66.661	$\overline{23}$	25.24	185	5.474	$\overline{8}$	36.18	140
Juli	9	66.638	87	27.09	168	5.466	45	37.58	125
	19	66.551	149	28.77	145	5.421	79	38.83	107
	29	66.402	205	30.22	118	5.342	111	39.90	87
Aug.	8	66.197	251	31.40	87	5.231	137	40.77	65
	18	65.946	288	32.27	52	5.094	158	41.42	42
	28	65.658	310	32.79	15	4.936	172	41.84	18
Sept.	7	65.348	318	32.94	$\overline{23}$	4.764	178	42.02	$\overline{7}$
	17	65.030	309	32.71	60	4.586	174	41.95	33
	27	64.721	284	32.11	96	4.412	161	41.62	59
Okt.	7	64.437	243	31.15	127	4.251	139	41.03	85
	17	64.194	186	29.88	154	4.112	107	40.18	112
	27	64.008	118	28.34	174	4.005	70	39.06	137
Nov.	6	63.890	40	26.60	185	3.935	25	37.69	161
	16	63.850	$\overline{44}$	24.75	190	3.910	$\overline{23}$	36.08	184
	26	63.894	129	22.85	185	3.933	72	34.24	201
Dez.	6	64.023	211	21.00	174	4.005	120	32.23	215
	16	64.234	287	19.26	156	4.125	165	30.08	223
	26	64.521	355	17.70	131	4.290	204	27.85	224
	36	64.876		16.39		4.494		25.61	
Mittl. Ort		63.584		19.99		3.763		32.82	
sec δ, tg δ		1.784		−1.477		1.014		+0.167	
a, *a'*		+5.0		−5.7		+2.9		−5.6	
b, *b'*		+0.03		+0.96		0.00		+0.96	

Tag	634) ε Herculis AR.	Δ	634) ε Herculis Dekl.	Δ	1449) 85 G. Ophiuchi AR.	Δ	1449) 85 G. Ophiuchi Dekl.	Δ	639) ζ Draconis AR.	Δ	639) ζ Draconis Dekl.	Δ	641) δ Herculis AR.	Δ	641) δ Herculis Dekl.	Δ
1945	16h 58m		+31° 0′		17h 5m		−17° 32′		17h 8m		+65° 46′		17h 12m		+24° 53′	
Jan. 1	8.789 s	221	21.70 ″	300	0.639 s	239	10.63 ″	81	34.08 s	28	53.14 ″	355	44.036 s	205	70.04 ″	282
11	9.010	258	18.70	278	0.878	269	11.44	86	34.36	37	49.59	325	44.241	240	67.22	264
21	9.268	286	15.92	246	1.147	291	12.30	88	34.73	45	46.34	282	44.481	269	64.58	237
31	9.554	306	13.46	204	1.438	306	13.18	86	35.18	51	43.52	230	44.750	288	62.21	200
Febr. 10	9.860	318	11.42	155	1.744	313	14.04	80	35.69	55	41.22	171	45.038	302	60.21	158
20	10.178	323	9.87	103	2.057	316	14.84	71	36.24	58	39.51	106	45.340	308	58.63	109
März 2	10.501	321	8.84	46	2.373	312	15.55	60	36.82	58	38.45	37	45.648	308	57.54	57
12	10.822	311	8.38	10	2.685	306	16.15	47	37.40	58	38.08	31	45.956	303	56.97	5
22	11.133	298	8.48	65	2.991	295	16.62	34	37.98	54	38.39	95	46.259	291	56.92	46
Apr. 1	11.431	278	9.13	114	3.286	281	16.96	21	38.52	51	39.34	156	46.550	276	57.38	93
11	11.709	254	10.27	159	3.567	264	17.17	9	39.03	45	40.90	209	46.826	257	58.31	136
21	11.963	227	11.86	195	3.831	244	17.26	1	39.48	38	42.99	252	47.083	233	59.67	172
Mai 1	12.190	195	13.81	223	4.075	221	17.27	7	39.86	30	45.51	286	47.316	206	61.39	200
11	12.385	161	16.04	243	4.296	194	17.20	11	40.16	22	48.37	311	47.522	175	63.39	221
21	12.546	124	18.47	255	4.490	163	17.09	14	40.38	14	51.48	323	47.697	141	65.60	232
31	12.670	85	21.02	257	4.653	131	16.95	15	40.52	5	54.71	325	47.838	105	67.92	237
Juni 9*)	6 12.755	44	23.59	252	8 4.784	94	16.80	14	9 40.57	5	57.96	319	47.943	66	70.29	234
19	12.799	3	26.11	239	4.878	57	16.66	12	40.52	13	61.15	303	10 48.009	26	72.63	224
29	12.802	39	28.50	220	4.935	17	16.54	10	40.39	21	64.18	279	48.035	14	74.87	209
Juli 9	12.763	79	30.70	196	4.952	23	16.44	8	40.18	30	66.97	247	48.021	54	76.96	187
19	12.684	116	32.66	167	4.929	61	16.36	7	39.88	36	69.44	210	47.967	92	78.83	162
29	12.568	150	34.33	133	4.868	96	16.29	6	39.52	43	71.54	168	47.875	127	80.45	133
Aug. 8	12.418	179	35.66	98	4.772	127	16.23	5	39.09	48	73.22	122	47.748	156	81.78	101
18	12.239	202	36.64	60	4.645	151	16.18	6	38.61	51	74.44	73	47.592	181	82.79	67
28	12.037	216	37.24	19	4.494	167	16.12	7	38.10	55	75.17	21	47.411	198	83.46	31
Sept. 7	11.821	222	37.43	21	4.327	176	16.05	7	37.55	55	75.38	31	47.213	206	83.77	6
17	11.599	219	37.22	63	4.151	174	15.98	8	37.00	55	75.07	84	47.007	205	83.71	44
27	11.380	205	36.59	104	3.977	160	15.90	7	36.45	52	74.23	135	46.802	194	83.27	82
Okt. 7	11.175	181	35.55	145	3.817	138	15.83	4	35.93	49	72.88	185	46.608	174	82.45	119
17	10.994	149	34.10	184	3.679	105	15.79	0	35.44	43	71.03	233	46.434	145	81.26	155
27	10.845	109	32.26	219	3.574	65	15.79	7	35.01	37	68.70	276	46.289	106	79.71	190
Nov. 6	10.736	61	30.07	252	3.509	19	15.86	16	34.64	28	65.94	314	46.183	62	77.81	221
16	10.675	8	27.55	279	3.490	32	16.02	28	34.36	19	62.80	345	46.121	14	75.60	248
26	10.667	45	24.76	300	3.522	84	16.30	40	34.17	9	59.35	366	46.107	38	73.12	270
Dez. 6	10.712	99	21.76	313	3.606	133	16.70	53	34.08	2	55.69	379	46.145	89	70.42	285
16	10.811	151	18.63	316	3.739	180	17.23	65	34.10	12	51.90	380	46.234	137	67.57	292
26	10.962	198	15.47	311	3.919	221	17.88	75	34.22	22	48.10	369	46.371	183	64.65	289
36	11.160		12.36		4.140		18.63		34.44		44.41		46.554		61.76	
Mittl. Ort	10.989		22.50		3.031		16.48		37.31		56.19		46.233		69.94	
sec δ, tg δ	1.167		+0.601		1.049		−0.316		2.438		+2.223		1.103		+0.464	
a, a′	+2.3		−5.3		+3.5		−4.8		+0.2		−4.5		+2.5		−4.1	
b, b′	−0.01		+0.96		+0.01		+0.97		−0.03		+0.98		−0.01		+0.98	

*) Bei Stern 641) lies Juni 10.

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Tag	643) π Herculis AR.		643) π Herculis Dekl.		1454) Pi 17ʰ 68 Herc AR.		1454) Pi 17ʰ 68 Herc Dekl.		644) ϑ Ophiuchi AR.		644) ϑ Ophiuchi Dekl.		645) β Arae AR.		645) β Arae Dekl.	
1945	$17^h\ 13^m$		+36° 51′		$17^h\ 17^m$		+18° 6′		$17^h\ 18^m$		−24° 56′		$17^h\ 20^m$		−55° 28′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.489	209	71.16	319	51.111	201	45.18	256	35.177	239	41.09	31	39.526	347	39.76	138
11	5.698	250	67.97	297	51.312	234	42.62	240	35.416	272	41.40	41	39.873	401	38.38	112
21	5.948	284	65.00	263	51.546	261	40.22	218	35.688	297	41.81	47	40.274	444	37.26	85
31	6.232	309	62.37	220	51.807	280	38.04	187	35.985	315	42.28	52	40.718	475	36.41	57
Febr. 10	6.541	326	60.17	170	52.087	292	36.17	149	36.300	325	42.80	53	41.193	496	35.84	27
20	6.867	335	58.47	114	52.379	299	34.68	106	36.625	329	43.33	52	41.689	506	35.57	1
März 2	7.202	337	57.33	55	52.678	299	33.62	60	36.954	329	43.85	48	42.195	507	35.58	28
12	7.539	331	56.78	6	52.977	294	33.02	12	37.283	324	44.33	43	42.702	502	35.86	54
22	7.870	318	56.84	64	53.271	285	32.90	$\overline{34}$	37.607	316	44.76	38	43.204	489	36.40	79
April 1	8.188	299	57.48	118	53.556	272	33.24	77	37.923	302	45.14	33	43.693	468	37.19	103
11	8.487	276	58.66	165	53.828	254	34.01	116	38.225	287	45.47	28	44.161	443	38.22	124
21	8.763	248	60.31	206	54.082	233	35.17	149	38.512	268	45.75	25	44.604	410	39.46	143
Mai 1	9.011	214	62.37	238	54.315	209	36.66	174	38.780	244	46.00	23	45.014	370	40.89	160
11	9.225	178	64.75	261	54.524	180	38.40	194	39.024	218	46.23	23	45.384	325	42.49	175
21	9.403	138	67.36	275	54.704	149	40.34	205	39.242	186	46.46	23	45.709	273	44.24	186
31	9.541	96	70.11	280	54.853	115	42.39	210	39.428	152	46.69	24	45.982	216	46.10	194
Juni 10	10 9.637	51	72.91	276	11 54.968	78	44.49	207	11 39.580	113	46.93	27	12 46.198	153	48.04	197
19	9.688	6	75.67	264	55.046	39	46.56	199	39.693	73	47.20	28	46.351	87	50.01	196
29	9.694	$\overline{39}$	78.31	246	55.085	0	48.55	186	39.766	30	47.48	29	46.438	20	51.97	189
Juli 9	9.655	83	80.77	220	55.085	38	50.41	167	39.796	$\overline{12}$	47.77	29	46.458	$\overline{48}$	53.86	177
19	9.572	125	82.97	190	55.047	76	52.08	146	39.784	53	48.06	27	46.410	112	55.63	160
29	9.447	162	84.87	156	54.971	110	53.54	120	39.731	93	48.33	24	46.298	173	57.23	137
Aug. 8	9.285	194	86.43	118	54.861	141	54.74	92	39.638	127	48.57	19	46.125	226	58.60	110
18	9.091	220	87.61	77	54.720	165	55.66	63	39.511	154	48.76	13	45.899	269	59.70	78
28	8.871	238	88.38	33	54.555	182	56.29	32	39.357	174	48.89	6	45.630	298	60.48	43
Sept. 7	8.633	246	88.71	10	54.373	192	56.61	0	39.183	185	48.95	$\overline{3}$	45.332	314	60.91	6
17	8.387	246	88.61	55	54.181	191	56.61	33	38.998	185	48.92	11	45.018	314	60.97	32
27	8.141	234	88.06	100	53.990	182	56.28	65	38.813	174	48.81	18	44.704	297	60.65	68
Okt. 7	7.907	211	87.06	144	53.808	162	55.63	99	38.639	152	48.63	23	44.407	263	59.97	102
17	7.696	180	85.62	186	53.646	135	54.64	131	38.487	120	48.40	26	44.144	214	58.95	132
27	7.516	140	83.76	226	53.511	98	53.33	163	38.367	79	48.14	27	43.930	151	57.63	157
Nov. 6	7.376	92	81.50	260	53.413	55	51.70	191	38.288	31	47.87	23	43.779	79	56.06	173
16	7.284	38	78.90	291	53.358	8	49.79	216	38.257	20	47.64	18	43.700	1	54.33	184
26	7.246	$\overline{18}$	75.99	314	53.350	$\overline{41}$	47.63	237	38.277	74	47.46	8	43.701	84	52.49	186
Dez. 6	7.264	75	72.85	329	53.391	90	45.26	252	38.351	127	47.38	$\overline{2}$	43.785	166	50.63	181
16	7.339	131	69.56	334	53.481	137	42.74	261	38.478	176	47.40	13	43.951	244	48.82	168
26	7.470	181	66.22	329	53.618	180	40.13	260	38.654	219	47.53	25	44.195	314	47.14	150
36	7.651		62.93		53.798		37.53		38.873		47.78		44.509		45.64	
Mittl. Ort	7.769		72.24		53.303		44.30		37.731		47.19		43.306		49.00	
sec δ, tg δ	1.250		+0.750		1.052		+0.327		1.103		−0.465		1.765		−1.454	
a, *a′*	+2.1		−4.1		+2.6		−3.7		+3.7		−3.6		+5.0		−3.4	
b, *b′*	−0.01		+0.98		0.00		+0.98		+0.01		+0.98		+0.02		+0.99	

Tag		648) δ Arae AR.		648) δ Arae Dekl.		651) α Arae AR.		651) α Arae Dekl.		653) β Draconis AR.		653) β Draconis Dekl.		652) λ Scorpii AR.		652) λ Scorpii Dekl.	
1945		$17^h 26^m$		−60° 38′		$17^h 27^m$		−49° 49′		$17^h 29^m$		+52° 20′		$17^h 29^m$		−37° 3′	
		s		″		s		″		s		″		s		″	
Jan.	1	3.37	38	16.35	166	31.713	305	57.18	113	8.655	202	27.45	353	49.345	256	49.64	46
	11	3.75	44	14.69	141	32.018	353	56.05	93	8.857	262	23.92	329	49.601	294	49.18	30
	21	4.19	50	13.28	111	32.371	392	55.12	70	9.119	313	20.63	294	49.895	324	48.88	16
	31	4.69	53	12.17	79	32.763	419	54.42	46	9.432	354	17.69	247	50.219	347	48.72	2
Febr.	10	5.22	56	11.38	48	33.182	438	53.96	22	9.786	384	15.22	193	50.566	361	48.70	$\overline{9}$
	20	5.78	58	10.90	15	33.620	448	53.74	$\overline{1}$	10.170	405	13.29	131	50.927	369	48.79	21
März	2	6.36	58	10.75	$\overline{17}$	34.068	451	53.75	23	10.575	413	11.98	66	51.296	371	49.00	30
	12	6.94	57	10.92	48	34.519	447	53.98	44	10.988	410	11.32	0	51.667	367	49.30	38
	22	7.51	56	11.40	78	34.966	437	54.42	64	11.398	399	11.32	64	52.034	360	49.68	46
Apr.	1	8.07	54	12.18	104	35.403	421	55.06	82	11.797	377	11.96	125	52.394	348	50.14	52
	11	8.61	51	13.22	131	35.824	399	55.88	101	12.174	346	13.21	180	52.742	331	50.66	59
	21	9.12	48	14.53	154	36.223	373	56.89	116	12.520	309	15.01	227	53.073	311	51.25	66
Mai	1	9.60	42	16.07	175	36.596	340	58.05	130	12.829	265	17.28	263	53.384	285	51.91	73
	11	10.02	38	17.82	193	36.936	301	59.35	144	13.094	215	19.91	292	53.669	256	52.64	79
	21	10.40	31	19.75	206	37.237	258	60.79	155	13.309	160	22.83	310	53.925	220	53.43	86
	31	10.71	25	21.81	216	37.495	207	62.34	162	13.469	102	25.93	317	54.145	181	54.29	90
Juni	10	13 10.96	18	23.97	222	13 37.702	153	63.96	166	14 13.571	44	29.10	316	14 54.326	138	55.19	95
	19	11.14	9	26.19	220	37.855	96	65.62	166	13.615	$\overline{17}$	32.26	305	54.464	91	56.14	96
	29	11.23	2	28.39	214	37.951	35	67.28	163	13.598	76	35.31	286	54.555	43	57.10	95
Juli	9	11.25	$\overline{5}$	30.53	202	37.986	$\overline{24}$	68.91	154	13.522	134	38.17	260	54.598	$\overline{7}$	58.05	92
	19	11.20	13	32.55	183	37.962	83	70.45	140	13.388	188	40.77	228	54.591	55	58.97	85
	29	11.07	21	34.38	158	37.879	138	71.85	122	13.200	236	43.05	190	54.536	100	59.82	75
Aug.	8	10.86	26	35.96	129	37.741	187	73.07	100	12.964	278	44.95	147	54.436	140	60.57	62
	18	10.60	32	37.25	94	37.554	226	74.07	73	12.686	312	46.42	102	54.296	174	61.19	45
	28	10.28	35	38.19	55	37.328	254	74.80	43	12.374	336	47.44	54	54.122	199	61.64	28
Sept.	7	9.93	36	38.74	14	37.074	271	75.23	11	12.038	350	47.98	4	53.923	212	61.92	7
	17	9.57	37	38.88	$\overline{27}$	36.803	272	75.34	$\overline{22}$	11.688	351	48.02	$\overline{46}$	53.711	214	61.99	$\overline{13}$
	27	9.20	36	38.61	69	36.531	259	75.12	53	11.337	340	47.56	98	53.497	204	61.86	32
Okt.	7	8.84	32	37.92	108	36.272	231	74.59	83	10.997	318	46.58	148	53.293	181	61.54	51
	17	8.52	26	36.84	143	36.041	189	73.76	109	10.679	282	45.10	196	53.112	147	61.03	65
	27	8.26	19	35.41	171	35.852	134	72.67	131	10.397	237	43.14	241	52.965	103	60.38	77
Nov.	6	8.07	11	33.70	192	35.718	70	71.36	145	10.160	181	40.73	282	52.862	50	59.61	84
	16	7.96	2	31.78	207	35.648	1	69.91	155	9.979	117	37.91	316	52.812	$\overline{7}$	58.77	86
	26	7.94	$\overline{7}$	29.71	211	35.647	$\overline{72}$	68.36	156	9.862	49	34.75	342	52.819	67	57.91	83
Dez.	6	8.01	17	27.60	208	35.719	145	66.80	151	9.813	$\overline{23}$	31.33	360	52.886	126	57.08	77
	16	8.18	26	25.52	198	35.864	214	65.29	140	9.836	94	27.73	368	53.012	182	56.31	66
	26	8.44	34	23.54	180	36.078	276	63.89	126	9.930	163	24.05	362	53.194	233	55.65	54
	36	8.78		21.74		36.354		62.63		10.093		20.43		53.427		55.11	
Mittl. Ort		7.66		25.51		35.147		65.29		11.249		29.01		52.237		56.32	
sec δ, tg δ		2.040		−1.778		1.550		−1.185		1.637		+1.296		1.253		−0.755	
a, *a′*		+5.4		−3.0		+4.6		−2.8		+1.4		−2.7		+ .1		−2.6	
b, *b′*		+0.02		+0.99		+0.01		+0.99		−0.01		+0.99		+0.01		+0.99	

Tag		656) α Ophiuchi AR.		656) α Ophiuchi Dekl.		654) ϑ Scorpii AR.		654) ϑ Scorpii Dekl.		658) ξ Serpentis AR.		658) ξ Serpentis Dekl.		664) ω Draconis AR.		664) ω Draconis Dekl.	
1945		17h 32m		+12° 35′		17h 33m		−42° 57′		17h 34m		−15° 21′		17h 37m		+68° 46′	
		s		″		s		″		s		″		s		″	
Jan.	1	20.557	189	56.44	230	18.684	270	46.51	81	23.659	211	52.34	79	12.54	23	59.25	362
	11	20.746	223	54.14	219	18.954	313	45.70	64	23.870	243	53.13	82	12.77	34	55.63	339
	21	20.969	249	51.95	200	19.267	347	45.06	46	24.113	268	53.95	81	13.11	43	52.24	303
	31	21.218	270	49.95	174	19.614	371	44.60	28	24.381	286	54.76	77	13.54	52	49.21	256
Febr.	10	21.488	283	48.21	142	19.985	389	44.32	11	24.667	300	55.53	69	14.06	58	46.65	201
	20	21.771	291	46.79	104	20.374	398	44.21	6	24.967	306	56.22	57	14.64	62	44.64	138
März	2	22.062	294	45.75	62	20.772	402	44.27	21	25.273	308	56.79	44	15.26	64	43.26	72
	12	22.356	292	45.13	20	21.174	398	44.48	36	25.581	306	57.23	28	15.90	65	42.54	4
	22	22.648	285	44.93	22	21.572	391	44.84	48	25.887	300	57.51	14	16.55	63	42.50	63
Apr.	1	22.933	275	45.15	62	21.963	379	45.32	61	26.187	290	57.65	1	17.18	59	43.13	126
	11	23.208	260	45.77	98	22.342	361	45.93	74	26.477	278	57.64	14	17.77	54	44.39	183
	21	23.468	242	46.75	128	22.703	338	46.67	85	26.755	261	57.50	24	18.31	47	46.22	232
Mai	1	23.710	220	48.03	153	23.041	312	47.52	96	27.016	241	57.26	31	18.78	40	48.54	271
	11	23.930	194	49.56	171	23.353	278	48.48	106	27.257	217	56.95	36	19.18	30	51.25	301
	21	24.124	165	51.27	182	23.631	240	49.54	115	27.474	189	56.59	38	19.48	21	54.26	320
	31	24.289	132	53.09	187	23.871	198	50.69	122	27.663	156	56.21	37	19.69	10	57.46	330
Juni	10	$_{15}$24.421	96	54.96	186	$_{15}$24.069	150	51.91	127	$_{15}$27.819	120	55.84	35	$_{16}$19.79	0	60.76	330
	19	24.517	59	56.82	179	24.219	99	53.18	129	27.939	83	55.49	31	19.79	10	64.06	319
	29	24.576	19	58.61	168	24.318	46	54.47	127	28.022	42	55.18	25	19.69	20	67.25	301
Juli	9	24.595	19	60.29	152	24.364	8	55.74	122	28.064	1	54.93	21	19.49	29	70.26	275
	19	24.576	58	61.81	133	24.356	60	56.96	113	28.065	40	54.72	15	19.20	38	73.01	242
	29	24.518	94	63.14	112	24.296	110	58.09	99	28.025	77	54.57	10	18.82	46	75.43	204
Aug.	8	24.424	125	64.26	87	24.186	155	59.08	83	27.948	112	54.47	7	18.36	53	77.47	161
	18	24.299	152	65.13	62	24.031	191	59.91	62	27.836	140	54.40	4	17.83	58	79.08	114
	28	24.147	171	65.75	35	23.840	217	60.53	38	27.696	161	54.36	1	17.25	61	80.22	64
Sept.	7	23.976	182	66.10	8	23.623	234	60.91	13	27.535	174	54.35	0	16.64	64	80.86	13
	17	23.794	185	66.18	21	23.389	237	61.04	13	27.361	176	54.35	3	16.00	65	80.99	40
	27	23.609	178	65.97	49	23.152	226	60.91	39	27.185	169	54.38	4	15.35	63	80.59	93
Okt.	7	23.431	160	65.48	79	22.926	202	60.52	62	27.016	150	54.42	8	14.72	59	79.66	144
	17	23.271	135	64.69	107	22.724	166	59.90	83	26.866	123	54.50	13	14.13	55	78.22	195
	27	23.136	100	63.62	135	22.558	118	59.07	100	26.743	87	54.63	19	13.58	48	76.27	242
Nov.	6	23.036	60	62.27	161	22.440	62	58.07	112	26.656	44	54.82	27	13.10	41	73.85	284
	16	22.976	14	60.66	185	22.378	1	56.95	118	26.612	3	55.09	37	12.69	30	71.01	320
	26	22.962	33	58.81	205	22.377	64	55.77	118	26.615	53	55.46	47	12.39	19	67.81	348
Dez.	6	22.995	81	56.76	221	22.441	128	54.59	113	26.668	103	55.93	58	12.20	8	64.33	368
	16	23.076	127	54.55	230	22.569	189	53.46	103	26.771	148	56.51	68	12.12	4	60.65	375
	26	23.203	169	52.25	233	22.758	244	52.43	90	26.919	191	57.19	75	12.16	16	56.90	372
	36	23.372		49.92		23.002		51.53		27.110		57.94		12.32		53.18	
Mittl. Ort		22.776		55.04		21.803		53.48		26.094		56.50		16.12		60.86	
sec δ, tg δ		1.025		+0.223		1.367		−0.931		1.037		−0.275		2.763		+2.576	
a, *a′*		+2.8		−2.4		+4.3		−2.3		+3.4		−2.2		−0.4		−2.0	
b, *b′*		0.00		+0.99		+0.01		+0.99		0.00		+0.99		−0.02		+1.00	

Tag		663) ι Herculis				661) η Pavonis				665) β Ophiuchi				670) ψ Draconis *pr*			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$17^h\ 37^m$		$+46°\ 1'$		$17^h\ 40^m$		$-64°41'$		$17^h\ 40^m$		$+4°\ 35'$		$17^h\ 42^m$		$+72°\ 10'$	
		s		″		s		″		s		″		s		″	
Jan.	1	52.154	183	63.96	344	14.92	40	53.07	197	42.964	186	21.39	187	50.61	23	33.71	363
	11	52.337	236	60.52	323	15.32	47	51.10	172	43.150	219	19.52	181	50.84	37	30.08	342
	21	52.573	280	57.29	290	15.79	54	49.38	144	43.369	244	17.71	167	51.21	48	26.66	307
	31	52.853	317	54.39	248	16.33	59	47.94	111	43.613	265	16.04	147	51.69	58	23.59	262
Febr.	10	53.170	344	51.91	196	16.92	63	46.83	77	43.878	279	14.57	121	52.27	65	20.97	207
	20	53.514	362	49.95	138	17.55	64	46.06	43	44.157	287	13.36	91	52.92	72	18.90	145
März	2	53.876	370	48.57	75	18.19	66	45.63	8	44.444	291	12.45	57	53.64	74	17.45	80
	12	54.246	371	47.82	11	18.85	65	45.55	$\overline{27}$	44.735	290	11.88	22	54.38	76	16.65	12
	22	54.617	363	47.71	$\overline{52}$	19.50	65	45.82	59	45.025	285	11.66	$\overline{13}$	55.14	73	16.53	$\overline{55}$
Apr.	1	54.980	346	48.23	111	20.15	62	46.41	91	45.310	277	11.79	47	55.87	70	17.08	118
	11	55.326	322	49.34	165	20.77	60	47.32	121	45.587	264	12.26	76	56.57	63	18.26	175
	21	55.648	292	50.99	212	21.37	55	48.53	149	45.851	248	13.02	102	57.20	56	20.01	225
Mai	1	55.940	256	53.11	250	21.92	51	50.02	174	46.099	228	14.04	123	57.76	46	22.26	265
	11	56.196	214	55.61	279	22.43	44	51.76	196	46.327	204	15.27	137	58.22	35	24.91	296
	21	56.410	168	58.40	297	22.87	38	53.72	214	46.531	176	16.64	146	58.57	25	27.87	317
	31	56.578	118	61.37	307	23.25	31	55.86	227	46.707	144	18.10	151	58.82	11	31.04	327
Juni	10	56.696	67	64.44	307	23.56	22	58.13	235	46.851	110	19.61	149	58.93	0	34.31	328
	19	^{16}56.763	13	67.51	298	^{17}23.78	13	60.48	237	^{17}46.961	74	21.10	143	^{17}58.93	13	37.59	319
	29	56.776	$\overline{40}$	70.49	282	23.91	4	62.85	234	47.035	34	22.53	134	58.80	24	40.78	301
Juli	9	56.736	93	73.31	257	23.95	$\overline{5}$	65.19	223	47.069	$\overline{5}$	23.87	121	58.56	35	43.79	277
	19	56.643	142	75.88	228	23.90	13	67.42	206	47.064	44	25.08	106	58.21	46	46.56	246
	29	56.501	187	78.16	193	23.77	22	69.48	182	47.020	80	26.14	89	57.75	55	49.02	208
Aug.	8	56.314	227	80.09	153	23.55	30	71.30	152	46.940	113	27.03	70	57.20	63	51.10	165
	18	56.087	260	81.62	110	23.25	35	72.82	117	46.827	141	27.73	50	56.57	70	52.75	119
	28	55.827	283	82.72	63	22.90	40	73.99	76	46.686	161	28.23	30	55.87	74	53.94	71
Sept.	7	55.544	298	83.35	17	22.50	43	74.75	33	46.525	174	28.53	10	55.13	76	54.65	19
	17	55.246	301	83.52	$\overline{33}$	22.07	43	75.08	$\overline{12}$	46.351	178	28.63	$\overline{12}$	54.37	78	54.84	$\overline{33}$
	27	54.945	294	83.19	82	21.64	42	74.96	57	46.173	171	28.51	34	53.59	76	54.51	86
Okt.	7	54.651	275	82.37	131	21.22	39	74.39	100	46.002	156	28.17	56	52.83	73	53.65	138
	17	54.376	244	81.06	178	20.83	32	73.39	140	45.846	131	27.61	78	52.10	67	52.27	189
	27	54.132	204	79.28	222	20.51	25	71.99	174	45.715	98	26.83	100	51.43	60	50.38	235
Nov.	6	53.928	154	77.06	263	20.26	17	70.25	201	45.617	58	25.83	122	50.83	50	48.03	279
	16	53.774	98	74.43	298	20.09	6	68.24	219	45.559	13	24.61	142	50.33	40	45.24	316
	26	53.676	37	71.45	325	20.03	$\overline{4}$	66.05	230	45.546	$\overline{33}$	23.19	160	49.93	27	42.08	344
Dez.	6	53.639	$\overline{26}$	68.20	344	20.07	$\overline{15}$	63.75	231	45.579	79	21.59	174	49.66	13	38.64	365
	16	53.665	89	64.76	354	20.22	26	61.44	224	45.658	125	19.85	184	49.53	0	34.99	375
	26	53.754	150	61.22	352	20.48	34	59.20	209	45.783	166	18.01	188	49.53	15	31.24	372
	36	53.904		57.70		20.82		57.11		45.949		16.13		49.68		27.52	
Mittl. Ort		54.604		64.89		19.82		61.07		45.224		19.37		54.65		35.03	
sec δ, tg δ		1.441		+1.037		2.340		−2.116		1.003		+0.080		3.267		+3.110	
a, *a′*		+1.7		−1.9		+5.9		−1.7		+3.0		−1.7		−1.1		−1.5	
b, *b′*		−0.01		+1.00		+0.01		+1.00		0.00		+1.00		−0.02		+1.00	

Scheinbare Sternörter 1945

Tag		667) μ Herculis¹) AR.		667) Dekl.		675) 35 Draconis AR.		675) Dekl.		671) ξ Draconis AR.		671) Dekl.		672) ϑ Herculis AR.		672) Dekl.	
1945		17ʰ 44ᵐ		+27° 44′		17ʰ 51ᵐ		+76° 57′		17ʰ 52ᵐ		+56° 52′		17ʰ 54ᵐ		+37° 15′	
		s		″		s		″		s		″		s		″	
Jan.	1	15.987	173	66.30	293	49.31	23	76.64	360	31.755	169	49.80	362	19.566	160	24.06	323
	11	16.160	213	63.37	278	49.54	42	73.04	340	31.924	239	46.18	342	19.726	206	20.83	307
	21	16.373	245	60.59	253	49.96	58	69.64	309	32.163	302	42.76	311	19.932	246	17.76	280
	31	16.618	271	58.06	218	50.54	73	66.55	265	32.465	355	39.65	268	20.178	277	14.96	243
Febr.	10	16.889	290	55.88	176	51.27	84	63.90	213	32.820	397	36.97	216	20.455	302	12.53	197
	20	17.179	303	54.12	127	52.11	93	61.77	153	33.217	427	34.81	156	20.757	321	10.56	144
März	2	17.482	309	52.85	75	53.04	98	60.24	88	33.644	446	33.25	92	21.078	330	9.12	86
	12	17.791	309	52.10	20	54.02	100	59.36	22	34.090	450	32.33	25	21.408	333	8.26	26
	22	18.100	303	51.90	$\overline{33}$	55.02	98	59.14	$\overline{44}$	34.540	445	32.08	$\overline{42}$	21.741	330	8.00	$\overline{33}$
Apr.	1	18.403	293	52.23	84	56.00	93	59.58	108	34.985	427	32.50	105	22.071	320	8.33	90
	11	18.696	278	53.07	131	56.93	86	60.66	165	35.412	398	33.55	163	22.391	303	9.23	143
	21	18.974	256	54.38	170	57.79	75	62.31	216	35.810	361	35.18	214	22.694	281	10.66	187
Mai	1	19.230	232	56.08	204	58.54	62	64.47	257	36.171	314	37.32	256	22.975	253	12.53	226
	11	19.462	203	58.12	228	59.16	48	67.04	290	36.485	261	39.88	289	23.228	220	14.79	255
	21	19.665	169	60.40	244	59.64	32	69.94	312	36.746	201	42.77	311	23.448	183	17.34	275
	31	19.834	132	62.84	253	59.96	15	73.06	325	36.947	137	45.88	325	23.631	141	20.09	286
Juni	10	19.966	93	65.37	253	60.11	$\overline{1}$	76.31	327	37.084	70	49.13	327	23.772	96	22.95	289
	19*)	[18] 20.059	50	67.90	246	[20] 60.10	18	79.58	320	[20] 37.154	2	52.40	321	[20] 23.868	50	25.84	283
	29	20.109	8	70.36	233	59.92	34	82.78	306	37.156	$\overline{67}$	55.61	306	23.918	2	28.67	270
Juli	9	20.117	$\overline{35}$	72.69	213	59.58	49	85.84	282	37.089	132	58.67	284	23.920	$\overline{46}$	31.37	250
	19	20.082	77	74.82	188	59.09	63	88.66	253	36.957	196	61.51	254	23.874	92	33.87	224
	29	20.005	116	76.70	159	58.46	76	91.19	217	36.761	253	64.05	219	23.782	136	36.11	193
Aug.	8	19.889	151	78.29	128	57.70	87	93.36	176	36.508	304	66.24	179	23.646	174	38.04	157
	18	19.738	179	79.57	92	56.83	95	95.12	132	36.204	345	68.03	134	23.472	206	39.61	119
	28	19.559	201	80.49	55	55.88	103	96.44	84	35.859	377	69.37	86	23.266	231	40.80	77
Sept.	7	19.358	214	81.04	17	54.85	106	97.28	33	35.482	398	70.23	36	23.035	247	41.57	33
	17	19.144	219	81.21	$\overline{23}$	53.79	108	97.61	$\overline{17}$	35.084	405	70.59	$\overline{15}$	22.788	254	41.90	$\overline{11}$
	27	18.925	213	80.98	63	52.71	107	97.44	70	34.679	400	70.44	68	22.534	249	41.79	57
Okt.	7	18.712	196	80.35	103	51.64	103	96.74	122	34.279	381	69.76	120	22.285	235	41.22	103
	17	18.516	172	79.32	142	50.61	96	95.52	172	33.898	349	68.56	170	22.050	210	40.19	148
	27	18.344	137	77.90	179	49.65	86	93.80	220	33.549	304	66.86	219	21.840	176	38.71	189
Nov.	6	18.207	96	76.11	213	48.79	75	91.60	264	33.245	248	64.67	263	21.664	133	36.82	229
	16	18.111	49	73.98	244	48.04	61	88.96	302	32.997	183	62.04	302	21.531	84	34.53	264
	26	18.062	$\overline{1}$	71.54	269	47.43	44	85.94	332	32.814	110	59.02	332	21.447	31	31.89	293
Dez.	6	18.063	52	68.85	287	46.99	26	82.62	355	32.704	33	55.70	355	21.416	$\overline{23}$	28.96	314
	16	18.115	102	65.98	297	46.73	8	79.07	367	32.671	46	52.15	368	21.439	79	25.82	326
	26	18.217	149	63.01	298	46.65	$\overline{11}$	75.40	366	32.717	124	48.47	368	21.518	132	22.56	327
	36	18.366		60.03		46.76		71.74		32.841		44.79		21.650		19.29	
Mittl. Ort		18.237		66.14		54.41		77.43		34.531		50.47		21.898		24.10	
sec δ, tg δ		1.130		+0.526		4.436		+4.322		1.830		+1.533		1.256		+0.761	
a, *a′*		+2.4		—1.4		—2.7		—0.7		+1.0		—0.6		+2.1		—0.5	
b, *b′*		0.00		+1.00		—0.01		+1.00		0.00		+1.00		0.00		+1.00	

¹) Die jährliche Parallaxe (0″.109) ist bereits berücksichtigt.

*) Bei Stern 675), 671) und 672) lies Juni 20.

Tag		676) γ Draconis AR.		676) γ Draconis Dekl.		673) ν Ophiuchi AR.		673) ν Ophiuchi Dekl.		677) 67 Ophiuchi AR.		677) 67 Ophiuchi Dekl.		679) γ Sagittarii AR.		679) γ Sagittarii Dekl.	
1945		$17^h\ 55^m$		$+51°\ 29'$		$17^h\ 55^m$		$-9°\ 46'$		$17^h\ 57^m$		$+2°\ 55'$		$18^h\ 2^m$		$-30°\ 25'$	
		s		"		s		"		s		"		s		"	
Jan.	1	17.024	161	40.22	355	57.419	184	4.21	103	51.026	172	59.24	174	13.629	207	32.24	25
	11	17.185	222	36.67	337	57.603	218	5.24	103	51.198	205	57.50	169	13.836	246	31.99	17
	21	17.407	275	33.30	307	57.821	245	6.27	98	51.403	233	55.81	157	14.082	276	31.82	9
	31	17.682	321	30.23	266	58.066	266	7.25	89	51.636	254	54.24	139	14.358	302	31.73	4
Febr.	10	18.003	357	27.57	215	58.332	281	8.14	75	51.890	271	52.85	115	14.660	320	31.69	$\overline{1}$
	20	18.360	383	25.42	156	58.613	292	8.89	59	52.161	282	51.70	87	14.980	332	31.70	3
März	2	18.743	399	23.86	94	58.905	297	9.48	39	52.443	288	50.83	55	15.312	340	31.73	5
	12	19.142	404	22.92	28	59.202	299	9.87	18	52.731	290	50.28	21	15.652	342	31.78	7
	22	19.546	399	22.64	$\overline{37}$	59.501	296	10.05	$\overline{3}$	53.021	288	50.07	$\overline{13}$	15.994	341	31.85	7
Apr.	1	19.945	385	23.01	100	59.797	290	10.02	22	53.309	282	50.20	44	16.335	335	31.92	9
	11	20.330	362	24.01	157	60.087	281	9.80	40	53.591	272	50.64	73	16.670	325	32.01	10
	21	20.692	331	25.58	207	60.368	267	9.40	55	53.863	258	51.37	99	16.995	311	32.11	14
Mai	1	21.023	292	27.65	249	60.635	249	8.85	66	54.121	241	52.36	118	17.306	292	32.25	19
	11	21.315	246	30.14	281	60.884	227	8.19	73	54.362	218	53.54	133	17.598	267	32.44	24
	21	21.561	195	32.95	304	61.111	201	7.46	77	54.580	192	54.87	142	17.865	238	32.68	31
	31	21.756	141	35.99	318	61.312	170	6.69	77	54.772	161	56.29	146	18.103	204	32.99	38
Juni	10	21.897	82	39.17	320	61.482	136	5.92	73	54.933	127	57.75	145	18.307	165	33.37	45
	20	[21] 21.979	22	42.37	315	[21] 61.618	98	5.19	69	[21] 55.060	90	59.20	139	[22] 18.472	121	33.82	51
	29	22.001	$\overline{38}$	45.52	302	61.716	59	4.50	61	55.150	51	60.59	131	18.593	76	34.33	57
Juli	9	21.963	98	48.54	279	61.775	17	3.89	52	55.201	10	61.90	118	18.669	29	34.90	59
	19	21.865	154	51.33	251	61.792	$\overline{24}$	3.37	43	55.211	$\overline{30}$	63.08	104	18.698	$\overline{19}$	35.49	61
	29	21.711	206	53.84	217	61.768	63	2.94	34	55.181	68	64.12	87	18.679	65	36.10	58
Aug.	8	21.505	252	56.01	177	61.705	98	2.60	25	55.113	102	64.99	69	18.614	106	36.68	54
	18	21.253	291	57.78	134	61.607	129	2.35	16	55.011	132	65.68	51	18.508	143	37.22	46
	28	20.962	320	59.12	88	61.478	153	2.19	7	54.879	156	66.19	32	18.365	171	37.68	37
Sept.	7	20.642	339	60.00	39	61.325	169	2.12	0	54.723	171	66.51	12	18.194	189	38.05	25
	17	20.303	348	60.39	$\overline{11}$	61.156	175	2.12	8	54.552	177	66.63	$\overline{8}$	18.005	198	38.30	11
	27	19.955	342	60.28	63	60.981	170	2.20	16	54.375	173	66.55	28	17.807	195	38.41	$\overline{3}$
Okt.	7	19.613	326	59.65	114	60.811	157	2.36	24	54.202	161	66.27	48	17.612	180	38.38	15
	17	19.287	297	58.51	163	60.654	133	2.60	33	54.041	138	65.79	69	17.432	154	38.23	27
	27	18.990	257	56.88	211	60.521	101	2.93	43	53.903	107	65.10	90	17.278	117	37.96	36
Nov.	6	18.733	207	54.77	255	60.420	61	3.36	53	53.796	69	64.20	109	17.161	73	37.60	42
	16	18.526	149	52.22	293	60.359	17	3.89	65	53.727	27	63.11	129	17.088	23	37.18	46
	26	18.377	84	49.29	324	60.342	$\overline{29}$	4.54	76	53.700	$\overline{19}$	61.82	146	17.065	$\overline{30}$	36.72	45
Dez.	6	18.293	15	46.05	346	60.371	77	5.30	87	53.719	65	60.36	160	17.095	84	36.27	42
	16	18.278	$\overline{54}$	42.59	360	60.448	123	6.17	95	53.784	110	58.76	169	17.179	136	35.85	36
	26	18.332	122	38.99	361	60.571	164	7.12	101	53.894	151	57.07	175	17.315	183	35.49	29
	36	18.454		35.38		60.735		8.13		54.045		55.32		17.498		35.20	
Mittl. Ort		19.617		40.67		59.818		6.90		53.316		57.47		16.407		35.96	
sec δ, tg δ		1.606		+1.257		1.015		−0.172		1.001		+0.051		1.160		−0.587	
a, *a*′		+1.4		−0.4		+3.3		−0.4		+3.0		−0.2		+3.9		+0.2	
b, *b*′		0.00		+1.00		0.00		+1.00		0.00		+1.00		0.00		+1.00	

Tag	680) 72 Ophiuchi				681) o Herculis				682) μ Sagittarii				685) 36 Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$18^h\ 4^m$		$+9°\ 33'$		$18^h\ 5^m$		$+28°\ 44'$		$18^h\ 10^m$		$-21°\ 4'$		$18^h\ 13^m$		$+64°\ 22'$	
	s		″		s		″		s		″		s		″	
Jan. 1	42.175	160	17.71	207	21.445	150	73.81	294	25.795	184	27.61	28	31.52	13	42.61	367
11	42.335	195	15.64	200	21.595	191	70.87	281	25.979	220	27.89	31	31.65	23	38.94	354
21	42.530	225	13.64	185	21.786	226	68.06	259	26.199	250	28.20	33	31.88	31	35.40	326
31	42.755	247	11.79	163	22.012	255	65.47	227	26.449	273	28.53	32	32.19	38	32.14	288
Febr. 10	43.002	266	10.16	135	22.267	278	63.20	186	26.722	292	28.85	28	32.57	45	29.26	238
20	43.268	279	8.81	101	22.545	295	61.34	138	27.014	304	29.13	21	33.02	50	26.88	180
März 2	43.547	286	7.80	63	22.840	306	59.96	87	27.318	313	29.34	13	33.52	53	25.08	117
12	43.833	290	7.17	23	23.146	311	59.09	32	27.631	316	29.47	4	34.05	55	23.91	50
22	44.123	289	6.94	$\overline{16}$	23.457	309	58.77	$\overline{23}$	27.947	316	29.51	$\overline{5}$	34.60	55	23.41	$\overline{17}$
Apr. 1	44.412	283	7.10	54	23.766	302	59.00	75	28.263	312	29.46	13	35.15	53	23.58	83
11	44.695	274	7.64	89	24.068	291	59.75	124	28.575	305	29.33	19	35.68	51	24.41	143
21	44.969	261	8.53	119	24.359	273	60.99	166	28.880	292	29.14	25	36.19	46	25.84	198
Mai 1	45.230	242	9.72	144	24.632	250	62.65	202	29.172	275	28.89	26	36.65	40	27.82	245
11	45.472	221	11.16	162	24.882	224	64.67	229	29.447	255	28.63	27	37.05	34	30.27	281
21	45.693	194	12.78	175	25.106	191	66.96	249	29.702	228	28.36	24	37.39	26	33.08	309
31	45.887	162	14.53	180	25.297	155	69.45	261	29.930	196	28.12	19	37.65	18	36.17	327
Juni 10	46.049	128	16.33	181	25.452	115	72.06	263	30.126	161	27.93	13	37.83	10	39.44	335
20	$_{23}$46.177	91	18.14	176	$_{23}$25.567	73	74.69	260	$_{24}$30.287	122	27.80	7	$_{25}$37.93	1	42.79	333
29	46.268	50	19.90	166	25.640	28	77.29	248	30.409	79	27.73	0	37.94	$\overline{7}$	46.12	322
Juli 9	46.318	10	21.56	153	25.668	$\overline{16}$	79.77	230	30.488	34	27.73	7	37.87	16	49.34	304
19	46.328	$\overline{31}$	23.09	135	25.652	60	82.07	208	30.522	$\overline{10}$	27.80	13	37.71	25	52.38	278
29	46.297	69	24.44	116	25.592	102	84.15	180	30.512	52	27.93	16	37.46	31	55.16	245
Aug. 8	46.228	105	25.60	94	25.490	139	85.95	149	30.460	92	28.09	19	37.15	38	57.61	207
18	46.123	135	26.54	70	25.351	172	87.44	115	30.368	127	28.28	20	36.77	44	59.68	164
28	45.988	160	27.24	47	25.179	196	88.59	77	30.241	154	28.48	19	36.33	49	61.32	117
Sept. 7	45.828	175	27.71	21	24.983	214	89.36	40	30.087	173	28.67	17	35.84	51	62.49	68
17	45.653	183	27.92	$\overline{5}$	24.769	221	89.76	$\overline{1}$	29.914	182	28.84	12	35.33	53	63.17	16
27	45.470	181	27.87	31	24.548	220	89.75	42	29.732	181	28.96	9	34.80	53	63.33	$\overline{38}$
Okt. 7	45.289	169	27.56	57	24.328	207	89.33	83	29.551	168	29.05	5	34.27	51	62.95	91
17	45.120	147	26.99	83	24.121	186	88.50	123	29.383	145	29.10	3	33.76	49	62.04	143
27	44.973	117	26.16	109	23.935	154	87.27	162	29.238	113	29.13	1	33.27	43	60.61	195
Nov. 6	44.856	81	25.07	134	23.781	116	85.65	198	29.125	73	29.14	2	32.84	38	58.66	243
16	44.775	39	23.73	157	23.665	72	83.67	231	29.052	28	29.16	4	32.46	30	56.23	284
26	44.736	$\overline{6}$	22.16	177	23.593	24	81.36	258	29.024	$\overline{21}$	29.20	9	32.16	21	53.39	321
Dez. 6	44.742	52	20.39	192	23.569	$\overline{27}$	78.78	279	29.045	70	29.29	13	31.95	13	50.18	347
16	44.794	97	18.47	204	23.596	77	75.99	293	29.115	118	29.42	20	31.82	2	46.71	365
26	44.891	139	16.43	208	23.673	124	73.06	296	29.233	163	29.62	26	31.80	$\overline{7}$	43.06	371
36	45.030		14.35		23.797		70.10		29.396		29.88		31.87		39.35	
Mittl. Ort	44.438		16.43		23.717		73.32		28.379		30.24		34.71		42.30	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.385		2.313		+2.085	
a, *a′*	+2.8		+0.4		+2.3		+0.5		+3.6		+0.9		+0.3		+1.2	
b, *b′*	0.00		+1.00		0.00		+1.00		0.00		+1.00		+0.01		+1.00	

Tag		688) η Serpentis AR.		Dekl.		689) ε Sagittarii AR.		Dekl.		690) 109 Herculis AR.		Dekl.		695) χ Draconis[1]) AR.		Dekl.	
1945		18h 18m		−2° 54′		18h 20m		−34° 24′		18h 21m		+21° 44′		18h 21m		+72° 42′	
		s		"		s		"		s		"		s		"	
Jan.	1	25.390	156	51.38	137	28.371	194	42.80	58	18.905	137	37.14	263	58.78	11	35.16	367
	11	25.546	190	52.75	134	28.565	236	42.22	51	19.042	176	34.51	254	58.89	26	31.49	355
	21	25.736	219	54.09	126	28.801	271	41.71	44	19.218	209	31.97	236	59.15	38	27.94	330
	31	25.955	243	55.35	112	29.072	300	41.27	36	19.427	238	29.61	209	59.53	51	24.64	293
Febr.	10	26.198	262	56.47	93	29.372	321	40.91	31	19.665	260	27.52	174	60.04	60	21.71	246
	20	26.460	275	57.40	70	29.693	338	40.60	24	19.925	278	25.78	132	60.64	67	19.25	189
März	2	26.735	284	58.10	44	30.031	349	40.36	19	20.203	291	24.46	86	61.31	74	17.36	127
	12	27.019	290	58.54	16	30.380	355	40.17	15	20.494	297	23.60	36	62.05	76	16.09	61
	22	27.309	291	58.70	12	30.735	357	40.02	9	20.791	298	23.24	13	62.81	77	15.48	6
Apr.	1	27.600	288	58.58	38	31.092	353	39.93	3	21.089	296	23.37	62	63.58	75	15.54	71
	11	27.888	282	58.20	62	31.445	347	39.90	2	21.385	288	23.99	106	64.33	71	16.25	133
	21	28.170	271	57.58	83	31.792	334	39.92	11	21.673	275	25.05	146	65.04	64	17.58	188
Mai	1	28.441	256	56.75	99	32.126	317	40.03	20	21.948	256	26.51	179	65.68	56	19.46	235
	11	28.697	236	55.76	111	32.443	294	40.23	29	22.204	233	28.30	205	66.24	47	21.81	275
	21	28.933	212	54.65	118	32.737	265	40.52	39	22.437	206	30.35	224	66.71	35	24.56	303
	31	29.145	182	53.47	119	33.002	230	40.91	50	22.643	172	32.59	236	67.06	23	27.59	323
Juni	10	29.327	149	52.28	118	33.232	190	41.41	61	22.815	136	34.95	239	67.29	11	30.82	333
	20	[26] 29.476	112	51.10	113	[27] 33.422	146	42.02	69	[27] 22.951	96	37.34	236	[27] 67.40	2	34.15	333
	29	29.588	73	49.97	103	33.568	98	42.71	76	23.047	53	39.70	227	67.38	14	37.48	323
Juli	9	29.661	31	48.94	92	33.666	48	43.47	81	23.100	10	41.97	211	67.24	27	40.71	307
	19	29.692	10	48.02	80	33.714	3	44.28	83	23.110	33	44.08	192	66.97	38	43.78	283
	29	29.682	51	47.22	66	33.711	52	45.11	81	23.077	74	46.00	168	66.59	49	46.61	252
Aug.	8	29.631	88	46.56	50	33.659	97	45.92	76	23.003	113	47.68	140	66.10	59	49.13	215
	18	29.543	120	46.06	36	33.562	138	46.68	67	22.890	145	49.08	110	65.51	66	51.28	173
	28	29.423	146	45.70	22	33.424	171	47.35	56	22.745	173	50.18	78	64.85	73	53.01	128
Sept.	7	29.277	165	45.48	6	33.253	194	47.91	41	22.572	191	50.96	43	64.12	77	54.29	78
	17	29.112	175	45.42	8	33.059	206	48.32	24	22.381	202	51.39	9	63.35	80	55.07	27
	27	28.937	174	45.50	22	32.853	207	48.56	7	22.179	202	51.48	27	62.55	80	55.34	25
Okt.	7	28.763	164	45.72	37	32.646	194	48.63	12	21.977	193	51.21	64	61.75	79	55.09	79
	17	28.599	145	46.09	52	32.452	171	48.51	28	21.784	173	50.57	99	60.96	74	54.30	132
	27	28.454	116	46.61	67	32.281	137	48.23	42	21.611	147	49.58	134	60.22	69	52.98	183
Nov.	6	28.338	81	47.28	82	32.144	93	47.81	55	21.464	111	48.24	168	59.53	60	51.15	232
	16	28.257	40	48.10	97	32.051	43	47.26	62	21.353	70	46.56	197	58.93	51	48.83	275
	26	28.217	5	49.07	110	32.008	10	46.64	68	21.283	25	44.59	224	58.42	39	46.08	313
Dez.	6	28.222	49	50.17	123	32.018	65	45.96	68	21.258	22	42.35	244	58.03	26	42.95	341
	16	28.271	94	51.40	131	32.083	120	45.28	66	21.280	68	39.91	259	57.77	11	39.54	361
	26	28.365	136	52.71	136	32.203	170	44.62	62	21.348	114	37.32	264	57.66	2	35.93	368
	36	28.501		54.07		32.373		44.00		21.462		34.68		57.68		32.25	
Mittl. Ort		27.740		52.86		31.287		45.35		21.161		36.33		62.90		34.41	
sec δ, tg δ		1.001		−0.051		1.212		−0.685		1.077		+0.399		3.365		+3.213	
a, *a′*		+3.1		+1.6		+4.0		+1.8		+2.5		+1.9		−1.2		+1.9	
b, *b′*		0.00		+1.00		0.00		+1.00		0.00		+1.00		+0.02		+1.00	

[1]) Die jährliche Parallaxe (0".119) ist bereits berücksichtigt.

Tag	691) α Telescopii AR.		691) α Telescopii Dekl.		699) α Lyrae[1]) AR.		699) α Lyrae[1]) Dekl.	
1945	18h 22m		−45° 59′		18h 35m		+38° 43′	
	s		″		s		″	
Jan. 1	50.324	218	59.95	128	2.151	112	53.75	323
11	50.542	269	58.67	118	2.263	160	50.52	313
21	50.811	311	57.49	105	2.423	205	47.39	293
31	51.122	347	56.44	91	2.628	243	44.46	261
Febr. 10	51.469	373	55.53	76	2.871	275	41.85	220
20	51.842	394	54.77	60	3.146	301	39.65	171
März 2	52.236	409	54.17	43	3.447	320	37.94	115
12	52.645	416	53.74	27	3.767	332	36.79	56
22	53.061	419	53.47	9	4.099	337	36.23	$\overline{4}$
Apr. 1	53.480	415	53.38	$\overline{7}$	4.436	335	36.27	63
11	53.895	407	53.45	24	4.771	326	36.90	119
21	54.302	391	53.69	43	5.097	310	38.09	168
Mai 1	54.693	371	54.12	61	5.407	289	39.77	212
11	55.064	343	54.73	78	5.696	259	41.89	247
21	55.407	308	55.51	95	5.955	224	44.36	274
31	55.715	267	56.46	110	6.179	185	47.10	291
Juni 10	55.982	219	57.56	123	6.364	140	50.01	300
20	56.201	167	58.79	134	6.504	92	53.01	300
29*)	56.368	111	60.13	140	6.596	43	56.01	293
Juli 9	56.479	$\overline{51}$	61.53	144	6.639	$\overline{8}$	58.94	278
19	56.530	9	62.97	141	6.631	58	61.72	256
29	56.521	67	64.38	134	6.573	106	64.28	229
Aug. 8	56.454	120	65.72	123	6.467	150	66.57	196
18	56.334	168	66.95	105	6.317	189	68.53	160
28	56.166	207	68.00	85	6.128	221	70.13	120
Sept. 7	55.959	234	68.85	59	5.907	243	71.33	77
17	55.725	250	69.44	32	5.664	257	72.10	32
27	55.475	250	69.76	2	5.407	260	72.42	$\overline{14}$
Okt. 7	55.225	238	69.78	$\overline{27}$	5.147	253	72.28	60
17	54.987	211	69.51	55	4.894	235	71.68	107
27	54.776	171	68.96	80	4.659	207	70.61	153
Nov. 6	54.605	122	68.16	102	4.452	171	69.08	195
16	54.483	63	67.14	119	4.281	127	67.13	235
26	54.420	0	65.95	130	4.154	78	64.78	268
Dez. 6	54.420	65	64.65	136	4.076	$\overline{25}$	62.10	295
16	54.485	128	63.29	136	4.051	29	59.15	314
26	54.613	188	61.93	133	4.080	82	56.01	322
36	54.801		60.60		4.162		52.79	
Mittl. Ort	53.706		62.73		4.504		52.86	
sec δ, tg δ	1.440		−1.036		1.282		+0.802	
a, a′	+4.5		+2.0		+2.0		+3.1	
b, b′	−0.01		+1.00		+0.01		+0.99	

Tag	698) ζ Pavonis AR.		698) ζ Pavonis Dekl.		703) 110 Herculis AR.		703) 110 Herculis Dekl.	
1945	18h 36m		−71° 28′		18h 43m		+20° 29′	
	s		″		s		″	
Jan. 1	30.66	35	41.45	262	15.338	115	33.33	253
11	31.01	46	38.83	249	15.453	153	30.80	246
21	31.47	57	36.34	229	15.606	188	28.34	231
31	32.04	65	34.05	202	15.794	219	26.03	207
Febr. 10	32.69	74	32.03	172	16.013	244	23.96	175
20	33.43	79	30.31	139	16.257	264	22.21	136
März 2	34.22	82	28.92	102	16.521	279	20.85	91
12	35.04	86	27.90	65	16.800	290	19.94	43
22	35.90	86	27.25	26	17.090	296	19.51	$\overline{5}$
Apr. 1	36.76	86	26.99	$\overline{13}$	17.386	297	19.56	53
11	37.62	85	27.12	51	17.683	293	20.09	97
21	38.47	81	27.63	89	17.976	283	21.06	137
Mai 1	39.28	76	28.52	125	18.259	269	22.43	171
11	40.04	69	29.77	158	18.528	248	24.14	199
21	40.73	62	31.35	188	18.776	223	26.13	219
31	41.35	53	33.23	214	18.999	192	28.32	232
Juni 10	41.88	43	35.37	236	19.191	157	30.64	238
20	42.31	31	37.73	251	19.348	117	33.02	236
29*)	42.62	19	40.24	259	19.465	76	35.38	229
Juli 9	42.81	$\overline{7}$	42.83	261	19.541	$\overline{32}$	37.67	215
19	42.88	7	45.44	253	19.573	13	39.82	198
29	42.81	18	47.97	239	19.560	55	41.80	175
Aug. 8	42.63	30	50.36	217	19.505	95	43.55	149
18	42.33	40	52.53	186	19.410	131	45.04	120
28	41.93	48	54.39	150	19.279	160	46.24	90
Sept. 7	41.45	55	55.89	106	19.119	182	47.14	56
17	40.90	59	56.95	59	18.937	196	47.70	23
27	40.31	60	57.54	8	18.741	200	47.93	$\overline{12}$
Okt. 7	39.71	58	57.62	$\overline{43}$	18.541	194	47.81	47
17	39.13	54	57.19	93	18.347	179	47.34	83
27	38.59	47	56.26	140	18.168	154	46.51	116
Nov. 6	38.12	37	54.86	181	18.014	123	45.35	150
16	37.75	26	53.05	216	17.891	85	43.85	180
26	37.49	13	50.89	242	17.806	43	42.05	207
Dez. 6	37.36	0	48.47	260	17.763	$\overline{2}$	39.98	228
16	37.36	14	45.87	268	17.765	48	37.70	244
26	37.50	28	43.19	268	17.813	91	35.26	252
36	37.78		40.51		17.904		32.74	
Mittl. Ort	37.26		43.58		17.591		32.47	
sec δ, tg δ	3.148		−2.985		1.068		+0.374	
a, a′	+7.0		+3.2		+2.6		+3.8	
b, b′	−0.03		+0.99		0.00		+0.98	

[1]) Die jährliche Parallaxe (0″.121) ist bereits berücksichtigt.

*) Bei Stern 699), 698) und 703) lies Juni 30.

Tag		704) λ Pavonis AR.		Dekl.		705) β Lyrae AR.		Dekl.		707) ο Draconis AR.		Dekl.		706) σ Sagittarii AR.		Dekl.	
1945		18h 47m		−62° 14′		18h 48m		+33° 17′		18h 50m		+59° 18′		18h 51m		−26° 21′	
		s		″		s		″		s		″		s		″	
Jan.	1	2.81	25	71.14	226	0.566	99	52.86	304	20.508	61	76.31	361	48.605	148	60.64	22
	11	3.06	32	68.88	217	0.665	144	49.82	296	20.569	140	72.70	356	48.753	188	60.42	20
	21	3.38	39	66.71	203	0.809	185	46.86	279	20.709	215	69.14	338	48.941	222	60.22	20
	31	3.77	45	64.68	182	0.994	221	44.07	252	20.924	284	65.76	307	49.163	251	60.02	21
Febr.	10	4.22	50	62.86	159	1.215	252	41.55	215	21.208	343	62.69	265	49.414	275	59.81	22
	20	4.72	55	61.27	133	1.467	278	39.40	169	21.551	394	60.04	213	49.689	295	59.59	26
März	2	5.27	57	59.94	105	1.745	298	37.71	117	21.945	432	57.91	155	49.984	309	59.33	30
	12	5.84	59	58.89	74	2.043	311	36.54	63	22.377	458	56.36	91	50.293	320	59.03	33
	22	6.43	60	58.15	43	2.354	318	35.91	5	22.835	471	55.45	25	50.613	328	58.70	37
Apr.	1	7.03	61	57.72	12	2.672	321	35.86	52	23.306	472	55.20	42	50.941	331	58.33	40
	11	7.64	59	57.60	21	2.993	315	36.38	104	23.778	460	55.62	104	51.272	329	57.93	41
	21	8.23	58	57.81	54	3.308	304	37.42	153	24.238	435	56.66	163	51.601	322	57.52	39
Mai	1	8.81	55	58.35	85	3.612	286	38.95	195	24.673	399	58.29	214	51.923	312	57.13	36
	11	9.36	52	59.20	114	3.898	262	40.90	230	25.072	353	60.43	257	52.235	294	56.77	30
	21	9.88	46	60.34	143	4.160	233	43.20	256	25.425	297	63.00	292	52.529	271	56.47	21
	31	10.34	41	61.77	168	4.393	197	45.76	275	25.722	235	65.92	317	52.800	242	56.26	12
Juni	10	10.75	33	63.45	189	4.590	157	48.51	284	25.957	166	69.09	332	53.042	208	56.14	1
	20	11.08	26	65.34	206	4.747	112	51.35	286	26.123	93	72.41	339	53.250	168	56.13	10
	30	11.34	18	67.40	217	4.859	67	54.21	280	26.216	18	75.80	335	53.418	125	56.23	21
Juli	9	[4] 11.52	9	69.57	222	[4] 4.926	18	57.01	268	[4] 26.234	57	79.15	324	[5] 53.543	77	56.44	32
	19	11.61	0	71.79	221	4.944	31	59.69	248	26.177	131	82.39	304	53.620	29	56.76	40
	29	11.61	8	74.00	211	4.913	77	62.17	223	26.046	201	85.43	278	53.649	18	57.16	46
Aug.	8	11.53	17	76.11	195	4.836	120	64.40	193	25.845	265	88.21	246	53.631	64	57.62	49
	18	11.36	24	78.06	172	4.716	159	66.33	160	25.580	322	90.67	208	53.567	105	58.11	50
	28	11.12	31	79.78	142	4.557	192	67.93	123	25.258	369	92.75	164	53.462	139	58.61	48
Sept.	7	10.81	35	81.20	106	4.365	215	69.16	84	24.889	405	94.39	118	53.323	166	59.09	43
	17	10.46	38	82.26	67	4.150	231	70.00	42	24.484	429	95.57	69	53.157	182	59.52	35
	27	10.08	39	82.93	23	3.919	237	70.42	2	24.055	440	96.26	16	52.975	189	59.87	27
Okt.	7	9.69	39	83.16	21	3.682	232	70.40	45	23.615	435	96.42	37	52.786	184	60.14	16
	17	9.30	35	82.95	65	3.450	217	69.95	89	23.180	419	96.05	91	52.602	167	60.30	6
	27	8.95	31	82.30	107	3.233	193	69.06	132	22.761	387	95.14	144	52.435	141	60.36	3
Nov.	6	8.64	25	81.23	144	3.040	160	67.74	173	22.374	342	93.70	196	52.294	105	60.33	10
	16	8.39	17	79.79	176	2.880	120	66.01	211	22.032	287	91.74	242	52.189	64	60.23	17
	26	8.22	8	78.03	200	2.760	76	63.90	244	21.745	221	89.32	284	52.125	18	60.06	21
Dez.	6	8.14	1	76.03	218	2.684	27	61.46	272	21.524	148	86.48	318	52.107	31	59.85	22
	16	8.15	11	73.85	227	2.657	22	58.74	291	21.376	70	83.30	344	52.138	79	59.63	23
	26	8.26	19	71.58	229	2.679	71	55.83	302	21.306	11	79.86	358	52.217	125	59.40	22
	36	8.45		69.29		2.750		52.81		21.317		76.28		52.342		59.18	
Mittl. Ort		7.58		71.90		2.863		51.67		23.367		74.29		51.322		60.70	
sec δ, tg δ		2.148		−1.901		1.196		+0.657		1.960		+1.686		1.116		−0.496	
a, *a′*		+5.6		+4.1		+2.2		+4.2		+0.9		+4.4		+3.7		+4.5	
b, *b′*		−0.03		+0.98		+0.01		+0.98		+0.02		+0.98		−0.01		+0.97	

Scheinbare Sternörter 1945

Tag	709) ϑ Serpentis pr AR.		Dekl.		711) R Lyrae AR.		Dekl.		708) λ Telescopii AR.		Dekl.		713) γ Lyrae AR.		Dekl.	
1945	18h 53m		+4° 7′		18h 53m		+43° 52′		18h 54m		−53° 0′		18h 56m		+32° 36′	
	s		″		s		″		s		″		s		″	
Jan. 1	26.765	117	50.57	165	37.196	81	23.40	334	0.165	193	46.00	182	50.790	89	47.90	298
11	26.882	154	48.92	161	37.277	134	20.06	328	0.358	254	44.18	175	50.879	134	44.92	294
21	27.036	185	47.31	150	37.411	184	16.78	311	0.612	308	42.43	166	51.013	175	41.98	277
31	27.221	212	45.81	134	37.595	229	13.67	282	0.920	354	40.77	152	51.188	212	39.21	252
Febr. 10	27.433	236	44.47	111	37.824	269	10.85	243	1.274	393	39.25	135	51.400	244	36.69	216
20	27.669	254	43.36	84	38.093	301	8.42	195	1.667	423	37.90	117	51.644	270	34.53	171
März 2	27.923	270	42.52	53	38.394	327	6.47	139	2.090	447	36.73	97	51.914	291	32.82	122
12	28.193	280	41.99	18	38.721	345	5.08	79	2.537	464	35.76	74	52.205	306	31.60	67
22	28.473	287	41.81	16	39.066	355	4.29	17	3.001	474	35.02	52	52.511	316	30.93	10
Apr. 1	28.760	290	41.97	50	39.421	357	4.12	45	3.475	478	34.50	28	52.827	319	30.83	46
11	29.050	289	42.47	81	39.778	351	4.57	103	3.953	475	34.22	3	53.146	315	31.29	99
21	29.339	283	43.28	108	40.129	338	5.60	157	4.428	463	34.19	23	53.461	307	32.28	147
Mai 1	29.622	271	44.36	131	40.467	316	7.17	205	4.891	445	34.42	49	53.768	290	33.75	190
11	29.893	256	45.67	148	40.783	288	9.22	245	5.336	418	34.91	73	54.058	268	35.65	225
21	30.149	234	47.15	160	41.071	251	11.67	276	5.754	382	35.64	98	54.326	240	37.90	253
31	30.383	207	48.75	166	41.322	210	14.43	298	6.136	339	36.62	121	54.566	205	40.43	272
Juni 10	30.590	175	50.41	167	41.532	163	17.41	311	6.475	288	37.83	141	54.771	166	43.15	283
20	30.765	139	52.08	163	41.695	112	20.52	316	6.763	229	39.24	158	54.937	123	45.98	285
30	30.904	100	53.71	154	41.807	58	23.68	312	6.992	164	40.82	170	55.060	76	48.83	281
Juli 9	^{5}31.004	58	55.25	142	^{5}41.865	3	26.80	301	^{5}7.156	97	42.52	177	^{6}55.136	29	51.64	268
19	31.062	14	56.67	127	41.868	52	29.81	281	7.253	27	44.29	180	55.165	20	54.32	251
29	31.076	27	57.94	109	41.816	105	32.62	256	7.280	42	46.09	176	55.145	67	56.83	227
Aug. 8	31.049	67	59.03	90	41.711	154	35.18	224	7.238	109	47.85	165	55.078	111	59.10	198
18	30.982	103	59.93	71	41.557	197	37.42	189	7.129	168	49.50	149	54.967	150	61.08	165
28	30.879	133	60.64	49	41.360	234	39.31	149	6.961	218	50.99	127	54.817	184	62.73	130
Sept. 7	30.746	156	61.13	29	41.126	262	40.80	106	6.743	258	52.26	99	54.633	210	64.03	90
17	30.590	171	61.42	8	40.864	280	41.86	59	6.485	284	53.25	66	54.423	226	64.93	50
27	30.419	177	61.50	14	40.584	288	42.45	12	6.201	295	53.91	32	54.197	233	65.43	7
Okt. 7	30.242	172	61.36	35	40.296	285	42.57	38	5.906	289	54.23	5	53.964	230	65.50	36
17	30.070	158	61.01	55	40.011	270	42.19	87	5.617	267	54.18	41	53.734	216	65.14	80
27	29.912	135	60.46	77	39.741	245	41.32	136	5.350	231	53.77	76	53.518	195	64.34	123
Nov. 6	29.777	106	59.69	96	39.496	211	39.96	182	5.119	182	53.01	108	53.323	163	63.11	164
16	29.671	69	58.73	116	39.285	168	38.14	225	4.937	122	51.93	134	53.160	125	61.47	202
26	29.602	29	57.57	133	39.117	118	35.89	264	4.815	55	50.59	156	53.035	81	59.45	236
Dez. 6	29.573	13	56.24	147	38.999	66	33.25	295	4.760	16	49.03	171	52.954	35	57.09	264
16	29.586	55	54.77	157	38.933	9	30.30	318	4.776	88	47.32	180	52.919	14	54.45	284
26	29.641	97	53.20	164	38.924	48	27.12	330	4.864	157	45.52	183	52.933	62	51.61	296
36	29.738		51.56		38.972		23.82		5.021		43.69		52.995		48.65	
Mittl. Ort	29.064		50.13		39.607		21.76		4.007		45.90		53.075		46.58	
sec δ, tg δ	1.003		+0.072		1.387		+0.961		1.662		−1.328		1.187		+0.640	
a, *a′*	+3.0		+4.6		+1.8		+4.7		+4.8		+4.7		+2.2		+4.9	
b, *b′*	0.00		+0.97		+0.01		+0.97		−0.02		+0.97		+0.01		+0.97	

Tag	716) ζ Aquilae				717) λ Aquilae				718) α Coron. austr.				720) π Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$19^h\ 2^m$		$+13°\ 46'$		$19^h\ 3^m$		$-4°\ 57'$		$19^h\ 5^m$		$-37°\ 59'$		$19^h\ 6^m$		$-21°\ 6'$	
	s		"		s		"		s		"		s		"	
Jan. 1	50.608	100	49.73	214	17.393	115	59.83	109	40.891	147	32.57	98	27.008	127	47.03	7
11	50.708	138	47.59	210	17.508	152	60.92	106	41.038	193	31.59	98	27.135	165	47.10	5
21	50.846	171	45.49	198	17.660	183	61.98	98	41.231	234	30.61	94	27.300	198	47.15	3
31	51.017	202	43.51	178	17.843	210	62.96	86	41.465	269	29.67	90	27.498	228	47.18	$\overline{1}$
Febr. 10	51.219	227	41.73	151	18.053	234	63.82	70	41.734	298	28.77	86	27.726	254	47.17	8
20	51.446	248	40.22	118	18.287	254	64.52	48	42.032	322	27.91	79	27.980	273	47.09	17
März 2	51.694	266	39.04	79	18.541	269	65.00	25	42.354	342	27.12	74	28.253	289	46.92	25
12	51.960	278	38.25	37	18.810	281	65.25	0	42.696	357	26.38	66	28.542	303	46.67	35
22	52.238	288	37.88	$\overline{6}$	19.091	289	65.25	26	43.053	367	25.72	58	28.845	312	46.32	45
Apr. 1	52.526	292	37.94	48	19.380	295	64.99	51	43.420	373	25.14	49	29.157	317	45.87	52
11	52.818	292	38.42	88	19.675	294	64.48	74	43.793	373	24.65	38	29.474	319	45.35	59
21	53.110	286	39.30	124	19.969	291	63.74	92	44.166	369	24.27	25	29.793	314	44.76	62
Mai 1	53.396	276	40.54	154	20.260	282	62.82	108	44.535	357	24.02	10	30.107	306	44.14	63
11	53.672	259	42.08	178	20.542	267	61.74	119	44.892	340	23.92	$\overline{5}$	30.413	292	43.51	61
21	53.931	238	43.86	197	20.809	246	60.55	125	45.232	316	23.97	21	30.705	271	42.90	55
31	54.169	210	45.83	209	21.055	222	59.30	126	45.548	284	24.18	39	30.976	245	42.35	48
Juni 10	54.379	177	47.92	213	21.277	191	58.04	123	45.832	246	24.57	56	31.221	212	41.87	38
20	54.556	141	50.05	212	21.468	155	56.81	117	46.078	202	25.13	71	31.433	175	41.49	26
30	54.697	100	52.17	205	21.623	116	55.64	107	46.280	153	25.84	84	31.608	134	41.23	15
Juli 9	54.797	57	54.22	193	21.739	74	54.57	95	46.433	100	26.68	96	31.742	88	41.08	$\overline{2}$
19	54.854	14	56.15	177	21.813	30	53.62	81	46.533	46	27.64	104	31.830	42	41.06	9
29	54.868	$\overline{29}$	57.92	157	21.843	$\overline{13}$	52.81	66	46.579	$\overline{8}$	28.68	107	31.872	$\overline{5}$	41.15	19
Aug. 8	54.839	70	59.49	135	21.830	54	52.15	51	46.571	61	29.75	107	31.867	49	41.34	26
18	54.769	107	60.84	109	21.776	92	51.64	36	46.510	110	30.82	102	31.818	90	41.60	32
28	54.662	139	61.93	82	21.684	123	51.28	22	46.400	151	31.84	91	31.728	126	41.92	35
Sept. 7	54.523	163	62.75	55	21.561	148	51.06	7	46.249	183	32.75	77	31.602	153	42.27	35
17	54.360	179	63.30	26	21.413	165	50.99	$\overline{5}$	46.066	205	33.52	60	31.449	171	42.62	33
27	54.181	186	63.56	$\overline{4}$	21.248	172	51.04	19	45.861	215	34.12	40	31.278	180	42.95	31
Okt. 7	53.995	183	63.52	33	21.076	169	51.23	30	45.646	212	34.52	17	31.098	177	43.26	26
17	53.812	171	63.19	63	20.907	156	51.53	43	45.434	198	34.69	$\overline{5}$	30.921	164	43.52	21
27	53.641	151	62.56	92	20.751	135	51.96	54	45.236	171	34.64	27	30.757	141	43.73	16
Nov. 6	53.490	122	61.64	120	20.616	105	52.50	66	45.065	134	34.37	47	30.616	110	43.89	12
16	53.368	87	60.44	146	20.511	70	53.16	78	44.931	90	33.90	64	30.506	72	44.01	10
26	53.281	47	58.98	170	20.441	30	53.94	88	44.841	39	33.26	78	30.434	29	44.11	7
Dez. 6	53.234	$\overline{6}$	57.28	189	20.411	$\overline{12}$	54.82	96	44.802	$\overline{14}$	32.48	88	30.405	$\overline{16}$	44.18	7
16	53.228	36	55.39	204	20.423	54	55.78	104	44.816	69	31.60	95	30.421	61	44.25	7
26	53.264	78	53.35	213	20.477	95	56.82	108	44.885	121	30.65	98	30.482	105	44.32	7
36	53.342		51.22		20.572		57.90		45.006		29.67		30.587		44.39	
Mittl. Ort	52.858		49.13		19.763		59.70		43.943		31.43		29.608		46.22	
sec δ, tg δ	1.030		+0.245		1.004		−0.087		1.269		−0.781		1.072		−0.386	
a, a'	+2.8		+5.4		+3.2		+5.5		+4.1		+5.7		+3.6		+5.7	
b, b'	0.00		+0.96		0.00		+0.96		−0.01		+0.96		−0.01		+0.96	

Tag	723) δ Draconis AR.		723) δ Draconis Dekl.		724) ϑ Lyrae AR.		724) ϑ Lyrae Dekl.		725) ω Aquilae AR.		725) ω Aquilae Dekl.		726) κ Cygni AR.		726) κ Cygni Dekl.	
1945	$19^h\ 12^m$		$+67°\ 33'$		$19^h\ 14^m$		$+38°\ 1'$		$19^h\ 15^m$		$+11°\ 29'$		$19^h\ 15^m$		$+53°\ 15'$	
	s		"		s		"		s		"		s		"	
Jan. 1	29.41	2	56.76	358	25.138	62	66.87	312	11.770	90	41.91	198	47.280	30	61.49	347
11	29.39	9	53.18	360	25.200	110	63.75	309	11.860	127	39.93	195	47.310	98	58.02	346
21	29.48	20	49.58	348	25.310	156	60.66	297	11.987	161	37.98	184	47.408	161	54.56	334
31	29.68	29	46.10	323	25.466	198	57.69	272	12.148	191	36.14	166	47.569	220	51.22	309
Febr. 10	29.97	38	42.87	287	25.664	235	54.97	238	12.339	217	34.48	141	47.789	274	48.13	273
20	30.35	47	40.00	240	25.899	266	52.59	194	12.556	239	33.07	110	48.063	320	45.40	227
März 2	30.82	52	37.60	184	26.165	294	50.65	143	12.795	259	31.97	73	48.383	359	43.13	171
12	31.34	57	35.76	122	26.459	313	49.22	87	13.054	273	31.24	34	48.742	386	41.42	111
22	31.91	60	34.54	56	26.772	327	48.35	29	13.327	284	30.90	$\overline{7}$	49.128	406	40.31	48
Apr. 1	32.51	61	33.98	$\overline{10}$	27.099	335	48.06	$\overline{30}$	13.611	291	30.97	47	49.534	414	39.83	$\overline{18}$
11	33.12	60	34.08	75	27.434	334	48.36	87	13.902	292	31.44	85	49.948	412	40.01	81
21	33.72	57	34.83	136	27.768	327	49.23	140	14.194	289	32.29	120	50.360	400	40.82	139
Mai 1	34.29	53	36.19	191	28.095	312	50.63	186	14.483	281	33.49	149	50.760	376	42.21	192
11	34.82	47	38.10	239	28.407	290	52.49	227	14.764	266	34.98	172	51.136	344	44.13	238
21	35.29	40	40.49	278	28.697	261	54.76	258	15.030	246	36.70	190	51.480	303	46.51	276
31	35.69	32	43.27	309	28.958	226	57.34	283	15.276	221	38.60	201	51.783	254	49.27	305
Juni 10	36.01	23	46.36	330	29.184	185	60.17	297	15.497	189	40.61	206	52.037	199	52.32	324
20	36.24	14	49.66	342	29.369	140	63.14	303	15.686	153	42.67	205	52.236	138	55.56	334
30	36.38	3	53.08	344	29.509	90	66.17	302	15.839	114	44.72	198	52.374	74	58.90	335
Juli 10	36.41	$\overline{7}$	56.52	339	29.599	39	69.19	293	15.953	71	46.70	186	52.448	8	62.25	329
19	[10] 36.34	16	59.91	324	[11] 29.638	$\overline{12}$	72.12	277	[11] 16.024	27	48.56	171	[11] 52.456	$\overline{57}$	65.54	313
29	36.18	26	63.15	302	29.626	63	74.89	255	16.051	$\overline{16}$	50.27	152	52.399	121	68.67	291
Aug. 8	35.92	34	66.17	275	29.563	111	77.44	227	16.035	58	51.79	130	52.278	180	71.58	263
18	35.58	42	68.92	240	29.452	155	79.71	194	15.977	95	53.09	106	52.098	234	74.21	228
28	35.16	49	71.32	199	29.297	191	81.65	158	15.882	128	54.15	81	51.864	280	76.49	189
Sept. 7	34.67	54	73.31	156	29.106	221	83.23	118	15.754	155	54.96	55	51.584	316	78.38	145
17	34.13	58	74.87	107	28.885	242	84.41	75	15.599	172	55.51	28	51.268	343	79.83	98
27	33.55	61	75.94	55	28.643	252	85.16	30	15.427	180	55.79	1	50.925	358	80.81	48
Okt. 7	32.94	61	76.49	2	28.391	253	85.46	$\overline{16}$	15.247	180	55.80	$\overline{27}$	50.567	360	81.29	$\overline{4}$
17	32.33	59	76.51	$\overline{53}$	28.138	242	85.30	63	15.067	170	55.53	55	50.207	350	81.25	57
27	31.74	57	75.98	109	27.896	223	84.67	109	14.897	151	54.98	81	49.857	328	80.68	109
Nov. 6	31.17	52	74.89	162	27.673	194	83.58	154	14.746	125	54.17	108	49.529	295	79.59	161
16	30.65	46	73.27	213	27.479	157	82.04	197	14.621	91	53.09	133	49.234	251	77.98	211
26	30.19	38	71.14	260	27.322	115	80.07	234	14.530	54	51.76	155	48.983	198	75.87	254
Dez. 6	29.81	29	68.54	299	27.207	67	77.73	266	14.476	14	50.21	173	48.785	140	73.33	291
16	29.52	19	65.55	330	27.140	18	75.07	291	14.462	$\overline{28}$	48.48	188	48.645	77	70.42	320
26	29.33	8	62.25	351	27.122	$\overline{33}$	72.16	307	14.490	69	46.60	196	48.568	9	67.22	339
36	29.25		58.74		27.155		69.09		14.559		44.64		48.559		63.83	
Mittl. Ort	32.77		53.35		27.448		64.93		14.017		41.57		49.864		58.64	
sec δ, tg δ	2.620		+2.422		1.270		+0.782		1.020		+0.203		1.672		+1.340	
a, *a'*	0.0		+6.2		+2.1		+6.4		+2.8		+6.5		+1.4		+6.5	
b, *b'*	+0.05		+0.95		+0.02		+0.95		0.00		+0.95		+0.03		+0.95	

Tag	729) τ Draconis				728) α Sagittarii				730) δ Aquilae				734) Grb 2900 Draco			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$19^h\ 16^m$		$+73°\ 14'$		$19^h\ 20^m$		$-40°\ 43'$		$19^h\ 22^m$		$+3°\ 0'$		$19^h\ 24^m$		$+79°\ 29'$	
	s		″		s		″		s		″		s		″	
Jan. 1	33.19	9 —	78.34	355	1.558	132	19.14	119	41.186	90	12.82	148	57.38	23	44.31	347
11	33.10	7	74.79	358	1.690	181	17.95	120	41.276	127	11.34	147	57.15	1 —	40.84	352
21	33.17	21	71.21	349	1.871	224	16.75	118	41.403	159	9.87	137	57.14	23	37.32	347
31	33.38	35	67.72	326	2.095	262	15.57	115	41.562	189	8.50	122	57.37	45	33.85	327
Febr. 10	33.73	47	64.46	291	2.357	294	14.42	110	41.751	214	7.28	101	57.82	66	30.58	296
20	34.20	57	61.55	245	2.651	322	13.32	103	41.965	236	6.27	76	58.48	84	27.62	254
März 2	34.77	67	59.10	191	2.973	345	12.29	96	42.201	255	5.51	46	59.32	99	25.08	202
12	35.44	72	57.19	130	3.318	362	11.33	86	42.456	270	5.05	13 —	60.31	109	23.06	143
22	36.16	77	55.89	66	3.680	376	10.47	77	42.726	282	4.92	20	61.40	117	21.63	81
Apr. 1	36.93	78	55.23	0	4.056	385	9.70	64	43.008	290	5.12	52	62.57	120	20.82	16 —
11	37.71	77	55.23	66	4.441	388	9.06	51	43.298	293	5.64	82	63.77	118	20.66	49
21	38.48	74	55.89	126	4.829	386	8.55	35	43.591	291	6.46	110	64.95	113	21.15	109
Mai 1	39.22	67	57.15	182	5.215	376	8.20	17 —	43.882	285	7.56	132	66.08	104	22.24	166
11	39.89	60	58.97	231	5.591	361	8.03	1	44.167	273	8.88	150	67.12	92	23.90	215
21	40.49	51	61.28	272	5.952	337	8.04	21	44.440	254	10.38	161	68.04	77	26.05	258
31	41.00	39	64.00	303	6.289	306	8.25	41	44.694	230	11.99	168	68.81	59	28.63	291
Juni 10	41.39	28	67.03	326	6.595	269	8.66	60	44.924	201	13.67	170	69.40	41	31.54	316
20	41.67	15	70.29	339	6.864	224	9.26	79	45.125	166	15.37	165	69.81	21	34.70	331
30	41.82	1 —	73.68	344	7.088	174	10.05	95	45.291	128	17.02	157	70.02	1 —	38.01	339
Juli 10	41.83	11	77.12	339	7.262	120	11.00	109	45.419	85	18.59	145	70.03	20	41.40	336
	11				12				13				13			
19	41.72	24	80.51	327	7.382	63	12.09	118	45.504	42 —	20.04	130	69.83	40	44.76	327
29	41.48	37	83.78	306	7.445	6 —	13.27	123	45.546	1	21.34	113	69.43	59	48.03	310
Aug. 8	41.11	47	86.84	279	7.451	50	14.50	123	45.545	43	22.47	94	68.84	76	51.13	285
18	40.64	58	89.63	246	7.401	102	15.73	118	45.502	82	23.41	74	68.08	93	53.98	256
28	40.06	66	92.09	208	7.299	146	16.91	109	45.420	115	24.15	54	67.15	106	56.54	219
Sept. 7	39.40	74	94.17	164	7.153	182	18.00	94	45.305	142	24.69	33	66.09	117	58.73	178
17	38.66	79	95.81	117	6.971	209	18.94	74	45.163	161	25.02	13 —	64.92	126	60.51	132
27	37.87	82	96.98	66	6.762	222	19.68	52	45.002	171	25.15	7	63.66	132	61.83	83
Okt. 7	37.05	82	97.64	13 —	6.540	223	20.20	28	44.831	171	25.08	27	62.34	135	62.66	31 —
17	36.23	82	97.77	42	6.317	210	20.48	2 —	44.660	162	24.81	47	60.99	134	62.97	22
27	35.41	79	97.35	98	6.107	187	20.50	23	44.498	144	24.34	65	59.65	129	62.75	77
Nov. 6	34.62	72	96.37	151	5.920	152	20.27	47	44.354	118	23.69	85	58.36	122	61.98	132
16	33.90	65	94.86	203	5.768	108	19.80	69	44.236	86	22.84	102	57.14	111	60.66	184
26	33.25	55	92.83	251	5.660	57	19.11	87	44.150	49	21.82	118	56.03	97	58.82	233
Dez. 6	32.70	44	90.32	291	5.603	4 —	18.24	100	44.101	10 —	20.64	131	55.06	80	56.49	276
16	32.26	31	87.41	324	5.599	51	17.24	111	44.091	30	19.33	141	54.26	60	53.73	310
26	31.95	18	84.17	347	5.650	105	16.13	118	44.121	69	17.92	147	53.66	38	50.63	336
36	31.77		80.70		5.755		14.95		44.190		16.45		53.28		47.27	
Mittl. Ort	37.25		74.48		4.703		16.70		43.471		13.18		63.11		39.73	
sec δ, tg δ	3.471		+3.323		1.319		−0.861		1.001		+0.052		5.485		+5.393	
a, *a′*	−1.1		+6.6		+4.2		+6.9		+3.0		+7.1		−3.6		+7.3	
b, *b′*	+0.07		+0.94		−0.02		+0.94		0.00		+0.94		+0.13		+0.93	

Scheinbare Sternörter 1945

Tag		733) ι Cygni				732) β Cygni *pr*				736) 52 Sagittarii				738) ϑ Cygni			
		AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1945		$19^h\ 28^m$		$+51°\ 36'$		$19^h\ 28^m$		$+27°\ 50'$		$19^h\ 33^m$		$-25°\ 0'$		$19^h\ 34^m$		$+50°\ 5'$	
		s		"		s		"		s		"		s		"	
Jan.	1	16.612	16	45.89	338	27.891	59	36.04	270	19.054	102	26.82	25	55.459	10	37.71	333
	11	16.628	79	42.51	342	27.950	102	33.34	269	19.156	141	26.57	29	55.469	70	34.38	337
	21	16.707	140	39.09	332	28.052	141	30.65	259	19.297	177	26.28	33	55.539	130	31.01	328
	31	16.847	198	35.77	310	28.193	177	28.06	238	19.474	210	25.95	38	55.669	186	27.73	308
Febr.	10	17.045	251	32.67	276	28.370	210	25.68	209	19.684	237	25.57	44	55.855	237	24.65	276
	20	17.296	298	29.91	232	28.580	239	23.59	170	19.921	262	25.13	50	56.092	283	21.89	233
März	2	17.594	336	27.59	180	28.819	263	21.89	125	20.183	282	24.63	57	56.375	322	19.56	182
	12	17.930	367	25.79	121	29.082	283	20.64	75	20.465	300	24.06	63	56.697	353	17.74	124
	22	18.297	389	24.58	57	29.365	298	19.89	23	20.765	313	23.43	69	57.050	376	16.50	62
Apr.	1	18.686	400	24.01	6	29.663	307	19.66	30	21.078	324	22.74	74	57.426	389	15.88	1
	11	19.086	402	24.07	68	29.970	311	19.96	80	21.402	329	22.00	76	57.815	392	15.89	64
	21	19.488	393	24.75	128	30.281	307	20.76	128	21.731	330	21.24	75	58.207	386	16.53	122
Mai	1	19.881	375	26.03	182	30.588	299	22.04	170	22.061	325	20.49	72	58.593	371	17.75	177
	11	20.256	348	27.85	229	30.887	283	23.74	206	22.386	314	19.77	66	58.964	345	19.52	224
	21	20.604	310	30.14	268	31.170	260	25.80	234	22.700	296	19.11	56	59.309	311	21.76	263
	31	20.914	265	32.82	298	31.430	232	28.14	255	22.996	273	18.55	44	59.620	269	24.39	295
Juni	10	21.179	213	35.80	319	31.662	197	30.69	268	23.269	242	18.11	31	59.889	219	27.34	316
	20	21.392	156	38.99	332	31.859	158	33.37	274	23.511	206	17.80	17	60.108	165	30.50	330
	30	21.548	95	42.31	336	32.017	114	36.11	271	23.717	164	17.63	1	60.273	106	33.80	334
Juli	10	21.643	32	45.67	330	32.131	68	38.82	263	23.881	118	17.62	14	60.379	44	37.14	330
	19	[14] 21.675	33	48.97	317	[14] 32.199	21	41.45	248	[15] 23.999	70	17.76	27	[16] 60.423	18	40.44	318
	29	21.642	95	52.14	297	32.220	27	43.93	228	24.069	21	18.03	38	60.405	79	43.62	299
Aug.	8	21.547	154	55.11	271	32.193	71	46.21	203	24.090	26	18.41	48	60.326	137	46.61	273
	18	21.393	207	57.82	238	32.122	113	48.24	174	24.064	71	18.89	53	60.189	191	49.34	242
	28	21.186	254	60.20	200	32.009	149	49.98	142	23.993	110	19.42	57	59.998	236	51.76	204
Sept.	7	20.932	292	62.20	158	31.860	178	51.40	107	23.883	143	19.99	55	59.762	275	53.80	163
	17	20.640	320	63.78	111	31.682	199	52.47	70	23.740	165	20.54	52	59.487	303	55.43	119
	27	20.320	337	64.89	63	31.483	210	53.17	31	23.575	179	21.06	46	59.184	321	56.62	70
Okt.	7	19.983	342	65.52	12	31.273	213	53.48	10	23.396	182	21.52	37	58.863	327	57.32	19
	17	19.641	336	65.64	41	31.060	205	53.38	49	23.214	173	21.89	27	58.536	322	57.51	32
	27	19.305	316	65.23	93	30.855	189	52.89	90	23.041	155	22.16	18	58.214	305	57.19	85
Nov.	6	18.989	287	64.30	145	30.666	164	51.99	129	22.886	128	22.34	8	57.909	278	56.34	136
	16	18.702	248	62.85	195	30.502	131	50.70	166	22.758	92	22.42	1	57.631	240	54.98	186
	26	18.454	199	60.90	239	30.371	94	49.04	200	22.666	52	22.41	8	57.391	195	53.12	231
Dez.	6	18.255	145	58.51	278	30.277	53	47.04	228	22.614	9	22.33	15	57.196	143	50.81	270
	16	18.110	85	55.73	309	30.224	9	44.76	250	22.605	36	22.18	19	57.053	87	48.11	301
	26	18.025	23	52.64	331	30.215	35	42.26	265	22.641	79	21.99	24	56.966	26	45.10	324
	36	18.002		49.33		30.250		39.61		22.720		21.75		56.940		41.86	
Mittl. Ort		19.124		42.67		30.114		34.58		21.707		24.07		57.919		34.35	
sec δ, tg δ		1.610		+1.262		1.131		+0.528		1.103		−0.466		1.559		+1.196	
a, *a′*		+1.5		+7.5		+2.4		+7.5		+3.6		+7.9		+1.6		+8.1	
b, *b′*		+0.03		+0.93		+0.01		+0.93		−0.01		+0.92		+0.03		+0.92	

Tag		740) 15 Cygni AR.		740) 15 Cygni Dekl.		741) γ Aquilae AR.		741) γ Aquilae Dekl.	
1945		$19^h\ 42^m$		$+37°\ 12'$		$19^h\ 43^m$		$+10°\ 28'$	
		s		"		s		"	
Jan.	1	15.229	30	75.99	298	36.432	63	40.45	183
	11	15.259	77	73.01	301	36.495	100	38.62	182
	21	15.336	122	70.00	293	36.595	133	36.80	173
	31	15.458	165	67.07	274	36.728	165	35.07	158
Febr.	10	15.623	205	64.33	244	36.893	194	33.49	134
	20	15.828	240	61.89	205	37.087	219	32.15	106
März	2	16.068	271	59.84	158	37.306	241	31.09	71
	12	16.339	296	58.26	104	37.547	260	30.38	34
	22	16.635	315	57.22	48	37.807	275	30.04	$\overline{5}$
Apr.	1	16.950	329	56.74	$\overline{10}$	38.082	287	30.09	44
	11	17.279	334	56.84	67	38.369	293	30.53	82
	21	17.613	333	57.51	120	38.662	295	31.35	116
Mai	1	17.946	324	58.71	169	38.957	291	32.51	145
	11	18.270	307	60.40	211	39.248	280	33.96	170
	21	18.577	283	62.51	246	39.528	264	35.66	188
	31	18.860	252	64.97	274	39.792	242	37.54	200
Juni	10	19.112	214	67.71	292	40.034	213	39.54	206
	20	19.326	171	70.63	302	40.247	179	41.60	206
	30	19.497	123	73.65	305	40.426	140	43.66	201
Juli	10	19.620	73	76.70	300	40.566	98	45.67	190
		18				18			
	19	19.693	21	79.70	287	40.664	55	47.57	175
	29	19.714	$\overline{30}$	82.57	269	40.719	11	49.32	157
Aug.	8	19.684	80	85.26	244	40.730	$\overline{33}$	50.89	136
	18	19.604	126	87.70	214	40.697	73	52.25	114
	28	19.478	166	89.84	180	40.624	109	53.39	89
Sept.	7	19.312	199	91.64	143	40.515	137	54.28	64
	17	19.113	224	93.07	102	40.378	159	54.92	37
	27	18.889	239	94.09	58	40.219	173	55.29	12
Okt.	7	18.650	245	94.67	14	40.046	176	55.41	$\overline{15}$
	17	18.405	240	94.81	$\overline{33}$	39.870	170	55.26	42
	27	18.165	226	94.48	79	39.700	157	54.84	67
Nov.	6	17.939	202	93.69	124	39.543	134	54.17	93
	16	17.737	171	92.45	168	39.409	105	53.24	116
	26	17.566	134	90.77	208	39.304	72	52.08	138
Dez.	6	17.432	91	88.69	243	39.232	$\underline{35}$	50.70	156
	16	17.341	46	86.26	270	39.197	4	49.14	171
	26	17.295	$\overline{3}$	83.56	290	39.201	42	47.43	180
	36	17.298		80.66		39.243		45.63	
Mittl. Ort		17.482		73.51		38.644		40.61	
sec δ, tg δ		1.256		+0.760		1.017		+0.185	
a, *a′*		+2.2		+8.7		+2.9		+8.8	
b, *b′*		+0.02		+0.90		+0.01		+0.90	

Tag		743) δ Sagittae AR.		743) δ Sagittae Dekl.		745) α Aquilae [1] AR.		745) α Aquilae [1] Dekl.	
1945		$19^h\ 44^m$		$+18°\ 23'$		$19^h\ 48^m$		$+8°\ 43'$	
		s		"		s		"	
Jan.	1	53.860	53	50.99	222	3.735	63	17.71	171
	11	53.913	92	48.77	222	3.798	100	16.00	170
	21	54.005	128	46.55	214	3.898	134	14.30	161
	31	54.133	161	44.41	196	4.032	165	12.69	145
Febr.	10	54.294	192	42.45	172	4.197	193	11.24	123
	20	54.486	219	40.73	139	4.390	218	10.01	95
März	2	54.705	243	39.34	100	4.608	241	9.06	63
	12	54.948	263	38.34	57	4.849	260	8.43	26
	22	55.211	280	37.77	12	5.109	275	8.17	$\overline{12}$
Apr.	1	55.491	291	37.65	$\overline{34}$	5.384	286	8.29	49
	11	55.782	298	37.99	78	5.670	294	8.78	85
	21	56.080	300	38.77	118	5.964	296	9.63	117
Mai	1	56.380	295	39.95	155	6.260	292	10.80	146
	11	56.675	283	41.50	185	6.552	282	12.26	168
	21	56.958	266	43.35	209	6.834	266	13.94	186
	31	57.224	241	45.44	227	7.100	244	15.80	196
Juni	10	57.465	212	47.71	236	7.344	216	17.76	201
	20	57.677	177	50.07	240	7.560	183	19.77	200
	30	57.854	136	52.47	237	7.743	144	21.77	194
Juli	10	57.990	93	54.84	228	7.887	103	23.71	183
		18				19			
	19	58.083	49	57.12	214	7.990	59	25.54	168
	29	58.132	3	59.26	196	8.049	15	27.22	150
Aug.	8	58.135	$\overline{41}$	61.22	173	8.064	$\overline{29}$	28.72	129
	18	58.094	82	62.95	149	8.035	68	30.01	107
	28	58.012	118	64.44	120	7.967	104	31.08	83
Sept.	7	57.894	148	65.64	90	7.863	134	31.91	59
	17	57.746	170	66.54	59	7.729	155	32.50	33
	27	57.576	183	67.13	27	7.574	169	32.83	9
Okt.	7	57.393	188	67.40	$\overline{5}$	7.405	172	32.92	$\overline{16}$
	17	57.205	183	67.35	39	7.233	168	32.76	40
	27	57.022	169	66.96	72	7.065	153	32.36	65
Nov.	6	56.853	147	66.24	104	6.912	132	31.71	88
	16	56.706	118	65.20	135	6.780	103	30.83	110
	26	56.588	85	63.85	162	6.677	70	29.73	130
Dez.	6	56.503	47	62.23	186	6.607	$\underline{33}$	28.43	146
	16	56.456	9	60.37	205	6.574	5	26.97	160
	26	56.447	$\overline{32}$	58.32	217	6.579	43	25.37	169
	36	56.479		56.15		6.622		23.68	
Mittl. Ort		56.048		50.35		5.951		18.23	
sec δ, tg δ		1.054		+0.333		1.012		+0.153	
a, *a′*		+2.7		+8.9		+2.9		+9.1	
b, *b′*		+0.01		+0.90		0.00		+0.89	

[1]) Die jährliche Parallaxe (0".208) ist bereits berücksichtigt.

Scheinbare Sternörter 1945

Tag	749) β Aquilae AR.		749) β Aquilae Dekl.		748) ε Pavonis AR.		748) ε Pavonis Dekl.		751) ϑ^1 Sagittarii AR.		751) ϑ^1 Sagittarii Dekl.		752) γ Sagittae AR.		752) γ Sagittae Dekl.	
1945	$19^h 52^m$		$+6° 15'$		$19^h 54^m$		$-73° 3'$		$19^h 56^m$		$-35° 25'$		$19^h 56^m$		$+19° 20'$	
	s		"		s		"		s		"		s		"	
Jan. 1	34.427	58	64.18	159	9.13	10	37.87	290	6.687	83	41.26	94	16.422	41	30.40	222
11	34.485	94	62.59	157	9.23	25	34.97	295	6.770	127	40.32	102	16.463	80	28.18	224
21	34.579	128	61.02	149	9.48	37	32.02	293	6.897	168	39.30	106	16.543	115	25.94	216
31	34.707	158	59.53	135	9.85	48	29.09	283	7.065	205	38.24	110	16.658	150	23.78	200
Febr. 10	34.865	187	58.18	114	10.33	60	26.26	267	7.270	239	37.14	111	16.808	182	21.78	176
20	35.052	213	57.04	88	10.93	68	23.59	243	7.509	269	36.03	113	16.990	210	20.02	143
März 2	35.265	236	56.16	56	11.61	76	21.16	216	7.778	294	34.90	113	17.200	235	18.59	106
12	35.501	255	55.60	23	12.37	82	19.00	183	8.072	317	33.77	110	17.435	258	17.53	63
22	35.756	271	55.37	$\overline{13}$	13.19	88	17.17	148	8.389	337	32.67	107	17.693	277	16.90	18
Apr. 1	36.027	284	55.50	48	14.07	90	15.69	110	8.726	351	31.60	101	17.970	290	16.72	$\overline{29}$
11	36.311	292	55.98	82	14.97	92	14.59	70	9.077	360	30.59	93	18.260	298	17.01	73
21	36.603	296	56.80	112	15.89	93	13.89	27	9.437	366	29.66	82	18.558	302	17.74	115
Mai 1	36.899	293	57.92	139	16.82	90	13.62	$\overline{15}$	9.803	364	28.84	69	18.860	299	18.89	153
11	37.192	285	59.31	159	17.72	88	13.77	59	10.167	356	28.15	52	19.159	289	20.42	185
21	37.477	269	60.90	176	18.60	82	14.36	100	10.523	340	27.63	33	19.448	273	22.27	210
31	37.746	249	62.66	185	19.42	74	15.36	139	10.863	316	27.30	14	19.721	250	24.37	228
Juni 10	37.995	222	64.51	189	20.16	66	16.75	175	11.179	286	27.16	$\overline{8}$	19.971	222	26.65	240
20	38.217	189	66.40	187	20.82	55	18.50	207	11.465	247	27.24	28	20.193	186	29.05	245
30	38.406	152	68.27	180	21.37	44	20.57	232	11.712	204	27.52	49	20.379	147	31.50	244
Juli 10	38.558	110	70.07	170	21.81	30	22.89	252	11.916	154	28.01	67	20.526	104	33.94	235
20	38.668	66	71.77	155	22.11	17	25.41	265	12.070	101	28.68	83	20.630	58	36.29	222
29	20 38.734	22	73.32	137	21 22.28	3	28.06	267	21 12.171	47	29.51	95	21 20.688	13	38.51	205
Aug. 8	38.756	$\overline{21}$	74.69	117	22.31	$\overline{11}$	30.73	262	12.218	$\overline{7}$	30.46	104	20.701	$\overline{31}$	40.56	182
18	38.735	61	75.86	96	22.20	25	33.35	248	12.211	58	31.50	107	20.670	74	42.38	158
28	38.674	98	76.82	74	21.95	37	35.83	224	12.153	104	32.57	106	20.596	111	43.96	130
Sept. 7	38.576	129	77.56	51	21.58	48	38.07	192	12.049	144	33.63	99	20.485	142	45.26	100
17	38.447	150	78.07	28	21.10	56	39.99	152	11.905	174	34.62	88	20.343	166	46.26	69
27	38.297	165	78.35	5	20.54	61	41.51	105	11.731	193	35.50	74	20.177	181	46.95	36
Okt. 7	38.132	170	78.40	$\overline{18}$	19.93	65	42.56	55	11.538	201	36.24	55	19.996	187	47.31	2
17	37.962	166	78.22	40	19.28	64	43.11	2	11.337	198	36.79	34	19.809	184	47.33	$\overline{31}$
27	37.796	153	77.82	62	18.64	62	43.13	$\overline{53}$	11.139	182	37.13	12	19.625	172	47.02	65
Nov. 6	37.643	133	77.20	83	18.02	55	42.60	106	10.957	157	37.25	$\overline{9}$	19.453	152	46.37	97
16	37.510	105	76.37	103	17.47	47	41.54	155	10.800	122	37.16	30	19.301	126	45.40	129
26	37.405	72	75.34	121	17.00	37	39.99	198	10.678	82	36.86	48	19.175	93	44.11	158
Dez. 6	37.333	37	74.13	137	16.63	24	38.01	235	10.596	36	36.38	65	19.082	57	42.53	183
16	37.296	$\overline{1}$	72.76	148	16.39	10	35.66	263	10.560	$\overline{11}$	35.73	79	19.025	20	40.70	202
26	37.297	38	71.28	157	16.29	$\overline{2}$	33.03	283	10.571	57	34.94	89	19.005	$\overline{20}$	38.68	217
36	37.335		69.71		16.31		30.20		10.628		34.05		19.025		36.51	
Mittl. Ort	36.645		64.97		16.10		31.17		9.576		36.07		18.587		29.70	
sec δ, tg δ	1.006		+0.110		3.432		−3.283		1.227		−0.711		1.060		+0.351	
a, *a′*	+2.9		+9.5		+6.9		+9.6		+3.9		+9.7		+2.7		+9.7	
b, *b′*	0.00		+0.88		−0.10		+0.88		−0.02		+0.87		+0.01		+0.87	

Tag	754) δ Pavonis [1] AR.		754) δ Pavonis [1] Dekl.		756) θ Aquilae AR.		756) θ Aquilae Dekl.		759) κ Cephei AR.		759) κ Cephei Dekl.		757) 31 o¹ Cygni AR.		757) 31 o¹ Cygni Dekl.	
1945	20^h 3^m		−66° 19′		20^h 8^m		−0° 58′		20^h 10^m		+77° 32′		20^h 11^m		+46° 34′	
	s		″		s		″		s		″		s		″	
Jan. 1	15.74	9	36.54	260	25.777	49	71.63	112	42.01	38	55.11	323	51.608	30	29.52	30
11	15.83	18	33.94	263	25.826	85	72.75	110	41.63	19	51.88	342	51.578	$\overline{24}$	26.45	319
21	16.01	28	31.26	268	25.911	117	73.85	101	41.44	$\overline{1}$	48.46	349	51.602	78	23.26	317
31	16.29	36	28.58	262	26.028	148	74.86	89	41.45	20	44.97	341	51.680	131	20.09	305
Febr. 10	16.65	43	25.96	250	26.176	177	75.75	71	41.65	38	41.56	321	51.811	181	17.04	280
20	17.08	50	23.46	232	26.353	203	76.46	49	42.03	56	38.35	289	51.992	228	14.24	245
März 2	17.58	56	21.14	210	26.556	227	76.95	23	42.59	71	35.46	247	52.220	270	11.79	200
12	18.14	61	19.04	183	26.783	248	77.18	$\overline{5}$	43.30	83	32.99	195	52.490	307	9.79	148
22	18.75	64	17.21	153	27.031	266	77.13	34	44.13	92	31.04	136	52.797	336	8.31	90
Apr. 1	19.39	67	15.68	120	27.297	281	76.79	62	45.05	99	29.68	73	53.133	357	7.41	29
11	20.06	69	14.48	83	27.578	292	76.17	89	46.04	102	28.95	9	53.490	371	7.12	$\overline{31}$
21	20.75	69	13.65	46	27.870	299	75.28	114	47.06	100	28.86	$\overline{54}$	53.861	376	7.43	90
Mai 1	21.44	68	13.19	7	28.169	298	74.14	133	48.06	97	29.40	115	54.237	369	8.33	146
11	22.12	67	13.12	$\overline{33}$	28.467	293	72.81	148	49.03	90	30.55	172	54.606	355	9.79	195
21	22.79	63	13.45	72	28.760	282	71.33	159	49.93	80	32.27	221	54.961	331	11.74	238
31	23.42	58	14.17	110	29.042	262	69.74	163	50.73	68	34.48	263	55.292	298	14.12	273
Juni 10	24.00	51	15.27	145	29.304	238	68.11	163	51.41	54	37.11	297	55.590	258	16.85	301
20	24.51	45	16.72	177	29.542	207	66.48	158	51.95	38	40.08	323	55.848	210	19.86	318
30	24.96	36	18.49	204	29.749	170	64.90	149	52.33	22	43.31	341	56.058	157	23.04	328
Juli 10	25.32	26	20.53	225	29.919	131	63.41	137	52.55	5	46.72	349	56.215	101	26.32	331
20	23 25.58	16	22.78	239	24 30.050	87	62.04	121	25 52.60	$\overline{12}$	50.21	349	25 56.316	43	29.63	324
29	25.74	6	25.17	247	30.137	42	60.83	104	52.48	29	53.70	342	56.359	$\overline{16}$	32.87	310
Aug. 8	25.80	$\overline{4}$	27.64	245	30.179	$\overline{2}$	59.79	85	52.19	45	57.12	326	56.343	74	35.97	290
18	25.76	15	30.09	236	30.177	43	58.94	66	51.74	60	60.38	304	56.269	128	38.87	263
28	25.61	23	32.45	216	30.134	81	58.28	47	51.14	74	63.42	275	56.141	176	41.50	231
Sept. 7	25.38	32	34.61	190	30.053	114	57.81	28	50.40	86	66.17	239	55.965	217	43.81	195
17	25.06	38	36.51	156	29.939	139	57.53	10	49.54	95	68.56	199	55.748	250	45.76	153
27	24.68	42	38.07	114	29.800	155	57.43	$\overline{6}$	48.59	103	70.55	154	55.498	274	47.29	108
Okt. 7	24.26	44	39.21	69	29.645	162	57.49	23	47.56	108	72.09	103	55.224	287	48.37	61
17	23.82	45	39.90	21	29.483	161	57.72	38	46.48	110	73.12	51	54.937	289	48.98	11
27	23.37	43	40.11	$\overline{30}$	29.322	150	58.10	53	45.38	110	73.63	$\overline{5}$	54.648	282	49.09	$\overline{40}$
Nov. 6	22.94	38	39.81	79	29.172	131	58.63	66	44.28	107	73.58	63	54.366	263	48.69	92
16	22.56	33	39.02	126	29.041	106	59.29	78	43.21	100	72.95	119	54.103	237	47.77	141
26	22.23	24	37.76	167	28.935	76	60.07	91	42.21	91	71.76	174	53.866	201	46.36	188
Dez. 6	21.99	16	36.09	202	28.859	42	60.98	100	41.30	80	70.02	225	53.665	159	44.48	231
16	21.83	6	34.07	231	28.817	7	61.98	106	40.50	65	67.77	269	53.506	112	42.17	267
26	21.77	$\overline{3}$	31.76	251	28.810	$\overline{31}$	63.04	111	39.85	49	65.08	305	53.394	62	39.50	294
36	21.80		29.25		28.841		64.15		39.36		62.03		53.332		36.56	
Mittl. Ort	20.97		29.06		28.015		69.51		46.64		48.26		53.896		25.34	
sec δ, tg δ	2.490		−2.281		1.000		−0.017		4.637		+4.528		1.455		+1.057	
a, *a′*	+5.7		+10.3		+3.1		+10.7		−2.0		+10.8		+1.9		+10.9	
b, *b′*	−0.08		+ 0.86		0.00		+ 0.85		+0.16		+ 0.84		+0.04		+ 0.84	

[1] Die jährliche Parallaxe (0.″174) ist bereits berücksichtigt.

Tag	758) 33 Cygni AR.		758) 33 Cygni Dekl.		760) 24 Vulpeculae AR.		760) 24 Vulpeculae Dekl.		761) α² Capricorni AR.		761) α² Capricorni Dekl.		765) γ Cygni AR.		765) γ Cygni Dekl.	
1945	$20^h\,12^m$		+56°23′		$20^h\,14^m$		+24°29′		$20^h\,14^m$		−12°42′		$20^h\,20^m$		+40° 4′	
	s		″		s		″		s		″		s		″	
Jan. 1	4.656	72	61.09	323	23.663	16	63.44	237	57.882	51	64.25	41	12.989	21	50.50	287
11	4.584	3	57.86	337	23.679	55	61.07	242	57.933	87	64.66	36	12.968	26	47.63	297
21	4.581	66	54.49	338	23.734	93	58.65	237	58.020	120	65.02	28	12.994	74	44.66	297
31	4.647	135	51.11	327	23.827	130	56.28	222	58.140	152	65.30	17	13.068	119	41.69	285
Febr. 10	4.782	201	47.84	303	23.957	164	54.06	200	58.292	181	65.47	3	13.187	164	38.84	262
20	4.983	262	44.81	268	24.121	196	52.06	168	58.473	207	65.50	13	13.351	206	36.22	229
März 2	5.245	316	42.13	222	24.317	226	50.38	129	58.680	232	65.37	31	13.557	243	33.93	186
12	5.561	363	39.91	169	24.543	252	49.09	85	58.912	254	65.06	50	13.800	277	32.07	136
22	5.924	399	38.22	109	24.795	274	48.24	38	59.166	273	64.56	68	14.077	305	30.71	82
Apr. 1	6.323	426	37.13	46	25.069	291	47.86	12	59.439	289	63.88	85	14.382	327	29.89	24
11	6.749	441	36.67	17	25.360	303	47.98	60	59.728	301	63.03	101	14.709	341	29.65	34
21	7.190	444	36.84	80	25.663	310	48.58	106	60.029	309	62.02	113	15.050	347	29.99	90
Mai 1	7.634	435	37.64	139	25.973	309	49.64	149	60.338	311	60.89	122	15.397	346	30.89	142
11	8.069	414	39.03	192	26.282	301	51.13	185	60.649	306	59.67	125	15.743	335	32.31	189
21	8.483	381	40.95	238	26.583	287	52.98	215	60.955	296	58.42	126	16.078	317	34.20	230
31	8.864	339	43.33	277	26.870	264	55.13	239	61.251	278	57.16	122	16.395	289	36.50	263
Juni 10	9.203	287	46.10	308	27.134	236	57.52	255	61.529	254	55.94	114	16.684	255	39.13	288
20	9.490	228	49.18	329	27.370	202	60.07	264	61.783	224	54.80	102	16.939	213	42.01	306
30	9.718	162	52.47	343	27.572	162	62.71	267	62.007	187	53.78	88	17.152	167	45.07	314
Juli 10	9.880	94	55.90	347	27.734	118	65.38	261	62.194	146	52.90	72	17.319	116	48.21	315
20	25 9.974	22	59.37	343	26 27.852	73	67.99	250	26 62.340	102	52.18	55	27 17.435	62	51.36	309
29	9.996	48	62.80	331	27.925	25	70.49	235	62.442	56	51.63	38	17.497	9	54.45	295
Aug. 8	9.948	117	66.11	311	27.950	22	72.84	213	62.498	10	51.25	22	17.506	44	57.40	276
18	9.831	180	69.22	286	27.928	65	74.97	188	62.508	34	51.03	6	17.462	95	60.16	250
28	9.651	239	72.08	254	27.863	105	76.85	160	62.474	73	50.97	8	17.367	139	62.66	219
Sept. 7	9.412	289	74.62	217	27.758	139	78.45	129	62.401	108	51.05	20	17.228	179	64.85	184
17	9.123	329	76.79	174	27.619	165	79.74	96	62.293	134	51.25	29	17.049	210	66.69	146
27	8.794	358	78.53	127	27.454	184	80.70	60	62.159	153	51.54	35	16.839	232	68.15	103
Okt. 7	8.436	375	79.80	77	27.270	193	81.30	23	62.006	162	51.89	41	16.607	246	69.18	59
17	8.061	381	80.57	25	27.077	194	81.53	14	61.844	161	52.30	44	16.361	248	69.77	12
27	7.680	373	80.82	30	26.883	185	81.39	51	61.683	151	52.74	46	16.113	242	69.89	36
Nov. 6	7.307	354	80.52	85	26.698	168	80.88	89	61.532	133	53.20	47	15.871	226	69.53	84
16	6.953	324	79.67	139	26.530	144	79.99	124	61.399	107	53.67	48	15.645	203	68.69	131
26	6.629	283	78.28	190	26.386	115	78.75	157	61.292	76	54.15	48	15.442	171	67.38	174
Dez. 6	6.346	232	76.38	237	26.271	81	77.18	187	61.216	42	54.63	47	15.271	134	65.64	214
16	6.114	176	74.01	276	26.190	44	75.31	211	61.174	6	55.10	46	15.137	92	63.50	249
26	5.938	112	71.25	308	26.146	6	73.20	229	61.168	32	55.56	43	15.045	48	61.01	274
36	5.826		68.17		26.140		70.91		61.200		55.99		14.997		58.27	
Mittl. Ort	7.170		55.84		25.786		62.08		60.236		60.28		15.170		46.91	
sec δ, tg δ	1.807		+1.505		1.099		+0.456		1.025		−0.226		1.307		+0.842	
a, *a′*	+1.4		+10.9		+2.6		+11.1		+3.3		+11.1		+2.2		+11.5	
b, *b′*	+0.05		+ 0.84		+0.02		+ 0.83		−0.01		+ 0.83		+0.03		+ 0.82	

Tag	764) α Pavonis AR.		764) α Pavonis Dekl.		1535) 42 Cygni AR.		1535) 42 Cygni Dekl.		767) ϑ Cephei AR.		767) ϑ Cephei Dekl.		768) ε Delphini AR.		768) ε Delphini Dekl.	
1945	20h 21m		−56° 54′		20h 27m		+36° 15′		20h 28m		+62° 48′		20h 30m		+11° 6′	
	s		″		s		″		s		″		s		″	
Jan. 1	14.574	47	56.49	215	12.292	20	75.85	272	36.96	15	38.34	316	32.959	18	53.88	169
11	14.621	116	54.34	229	12.272	$\overline{25}$	73.13	282	36.81	6	35.18	337	32.977	52	52.19	171
21	14.737	180	52.05	235	12.297	68	70.31	282	36.75	$\overline{2}$	31.81	343	33.029	87	50.48	165
31	14.917	240	49.70	236	12.365	112	67.49	272	36.77	10	28.38	337	33.116	119	48.83	153
Febr. 10	15.157	296	47.34	232	12.477	154	64.77	249	36.87	19	25.01	319	33.235	150	47.30	133
20	15.453	346	45.02	223	12.631	193	62.28	217	37.06	27	21.82	288	33.385	179	45.97	106
März 2	15.799	390	42.79	210	12.824	229	60.11	177	37.33	34	18.94	246	33.564	207	44.91	76
12	16.189	430	40.69	192	13.053	262	58.34	129	37.67	41	16.48	195	33.771	233	44.15	40
22	16.619	462	38.77	171	13.315	290	57.05	76	38.08	45	14.53	138	34.004	254	43.75	2
Apr. 1	17.081	489	37.06	147	13.605	311	56.29	21	38.53	49	13.15	75	34.258	274	43.73	$\overline{37}$
11	17.570	507	35.59	119	13.916	327	56.08	$\overline{35}$	39.02	51	12.40	10	34.532	288	44.10	75
21	18.077	519	34.40	88	14.243	335	56.43	88	39.53	53	12.30	$\overline{52}$	34.820	297	44.85	111
Mai 1	18.596	520	33.52	56	14.578	336	57.31	139	40.06	51	12.82	114	35.117	300	45.96	141
11	19.116	512	32.96	21	14.914	328	58.70	185	40.57	49	13.96	171	35.417	298	47.37	169
21	19.628	494	32.75	$\overline{14}$	15.242	311	60.55	223	41.06	46	15.67	220	35.715	288	49.06	190
31	20.122	463	32.89	50	15.553	287	62.78	256	41.52	41	17.87	264	36.003	270	50.96	204
Juni 10	20.585	423	33.39	84	15.840	256	65.34	279	41.93	34	20.51	299	36.273	247	53.00	213
20	21.008	371	34.23	117	16.096	218	68.13	296	42.27	28	23.50	326	36.520	218	55.13	216
30	21.379	310	35.40	146	16.314	174	71.09	304	42.55	21	26.76	343	36.738	182	57.29	213
Juli 10	21.689	242	36.86	170	16.488	126	74.13	305	42.76	12	30.19	353	36.920	141	59.42	205
20	21.931	168	38.56	190	16.614	75	77.18	299	42.88	3	33.72	354	37.061	99	61.47	192
29*)	28 22.099	89	40.46	204	29 16.689	23	80.17	285	29 42.91	$\overline{4}$	37.26	346	30 37.160	54	63.39	176
Aug. 8	22.188	10	42.50	209	16.712	$\overline{27}$	83.02	266	42.87	13	40.72	332	37.214	9	65.15	155
18	22.198	$\overline{66}$	44.59	208	16.685	76	85.68	242	42.74	21	44.04	309	37.223	$\overline{33}$	66.70	134
28	22.132	138	46.67	199	16.609	121	88.10	212	42.53	28	47.13	281	37.190	73	68.04	109
Sept. 7	21.994	200	48.66	181	16.488	158	90.22	178	42.25	33	49.94	245	37.117	107	69.13	85
17	21.794	252	50.47	156	16.330	190	92.00	141	41.92	39	52.39	205	37.010	134	69.98	58
27	21.542	290	52.03	125	16.140	212	93.41	101	41.53	43	54.44	160	36.876	153	70.56	32
Okt. 7	21.252	311	53.28	88	15.928	225	94.42	58	41.10	46	56.04	111	36.723	164	70.88	5
17	20.941	317	54.16	47	15.703	229	95.00	14	40.64	47	57.15	57	36.559	166	70.93	$\overline{20}$
27	20.624	306	54.63	5	15.474	223	95.14	$\overline{32}$	40.17	47	57.72	2	36.393	160	70.73	47
Nov. 6	20.318	279	54.68	$\overline{39}$	15.251	210	94.82	78	39.70	46	57.74	$\overline{55}$	36.233	146	70.26	72
16	20.039	238	54.29	80	15.041	187	94.04	122	39.24	42	57.19	112	36.087	125	69.54	96
26	19.801	186	53.49	119	14.854	158	92.82	164	38.82	39	56.07	166	35.962	99	68.58	118
Dez. 6	19.615	125	52.30	154	14.696	124	91.18	202	38.43	33	54.41	217	35.863	68	67.40	137
16	19.490	59	50.76	183	14.572	85	89.16	234	38.10	26	52.24	261	35.795	35	66.03	153
26	19.431	10	48.93	205	14.487	44	86.82	260	37.84	20	49.63	298	35.760	1	64.50	164
36	19.441		46.88		14.443		84.22		37.64		46.65		35.759		62.86	
Mittl. Ort	18.525		47.46		14.420		72.67		39.66		31.82		35.064		54.70	
sec δ, tg δ	1.832		−1.535		1.240		+0.734		2.188		+1.947		1.019		+0.197	
a, *a′*	+4.7		+11.6		+2.3		+12.0		+1.0		+12.1		+2.9		+12.2	
b, *b′*	−0.06		+ 0.82		+0.03		+ 0.80		+0.08		+ 0.80		+0.01		+ 0.79	

*) Bei Stern 768) lies Juli 30.

Scheinbare Sternörter 1945

Tag	770) 73 Draconis AR.		770) 73 Draconis Dekl.		769) α Indi AR.		769) α Indi Dekl.		1539) 29 Vulpeculae AR.		1539) 29 Vulpeculae Dekl.		773) υ Capricorni AR.		773) υ Capricorni Dekl.	
1945	20h 32m		+74° 45′		20h 33m		−47° 28′		20h 36m		+21° 0′		20h 36m		−18° 19′	
	s		″		s		″		s		″		s		″	
Jan. 1	11.52	36	67.08	311	39.149	34	74.91	165	1.770	1	26.26	212	52.859	33	67.10	5
11	11.16	21	63.97	334	39.183	88	73.26	180	1.771	37	24.14	217	52.892	68	67.15	4
21	10.95	5	60.63	346	39.271	137	71.46	190	1.808	73	21.97	215	52.960	101	67.11	15
31	10.90	10	57.17	344	39.408	186	69.56	195	1.881	108	19.82	203	53.061	135	66.96	25
Febr. 10	11.00	25	53.73	329	39.594	230	67.61	198	1.989	142	17.79	183	53.196	165	66.71	38
20	11.25	40	50.44	302	39.824	271	65.63	196	2.131	175	15.96	155	53.361	194	66.33	52
März 2	11.65	53	47.42	263	40.095	307	63.67	190	2.306	206	14.41	120	53.555	221	65.81	67
12	12.18	65	44.79	214	40.402	342	61.77	182	2.512	233	13.21	79	53.776	247	65.14	81
22	12,83	73	42.65	158	40.744	371	59.95	170	2.745	258	12.42	35	54.023	269	64.33	95
Apr. 1	13.56	80	41.07	97	41.115	395	58.25	154	3.003	279	12.07	11	54.292	288	63.38	108
11	14.36	83	40.10	33	41.510	414	56.71	136	3.282	295	12.18	56	54.580	304	62.30	118
21	15.19	85	39.77	31	41.924	428	55.35	113	3.577	304	12.74	100	54.884	315	61.12	124
Mai 1	16.04	83	40.08	93	42.352	432	54.22	88	3.881	309	13.74	141	55.199	321	59.88	127
11	16.87	79	41.01	151	42.784	430	53.34	61	4.190	305	15.15	175	55.520	320	58.61	126
21	17.66	72	42.52	204	43.214	418	52.73	31	4.495	294	16.90	205	55.840	313	57.35	122
31	18.38	63	44.56	249	43.632	397	52.42	1	4.789	277	18.95	227	56.153	299	56.13	112
Juni 10	19.01	53	47.05	288	44.029	367	52.43	31	5.066	251	21.22	243	56.452	276	55.01	99
20	19.54	40	49.93	317	44.396	326	52.74	62	5.317	221	23.65	253	56.728	247	54.02	84
30	19.94	28	53.10	338	44.722	279	53.36	90	5.538	183	26.18	254	56.975	212	53.18	67
Juli 10	20.22	14	56.48	352	45.001	224	54.26	117	5.721	142	28.72	251	57.187	172	52.51	48
20	20.36	1	60.00	356	45.225	163	55.43	139	5.863	97	31.23	241	57.359	127	52.03	28
30	20.35	14	63.56	353	45.388	99	56.82	155	5.960	51	33.64	226	57.486	81	51.75	10
Aug. 8	30 20.21	28	67.09	341	31 45.487	34	58.37	167	31 6.011	5	35.90	206	1 57.567	33	51.65	8
18	19.93	41	70.50	322	45.521	29	60.04	172	6.016	39	37.96	183	57.600	13	51.73	23
28	19.52	52	73.72	296	45.492	89	61.76	169	5.977	80	39.79	157	57.587	56	51.96	37
Sept. 7	19.00	63	76.68	264	45.403	142	63.45	160	5.897	116	41.36	128	57.531	93	52.33	46
17	18.37	72	79.32	226	45.261	185	65.05	144	5.781	144	42.64	97	57.438	124	52.79	52
27	17.65	79	81.58	182	45.076	218	66.49	122	5.637	164	43.61	65	57.314	146	53.31	55
Okt. 7	16.86	84	83.40	133	44.858	237	67.71	94	5.473	177	44.26	31	57.168	159	53.86	56
17	16.02	88	84.73	81	44.621	244	68.65	63	5.296	181	44.57	3	57.009	162	54.42	53
27	15.14	88	85.54	25	44.377	237	69.28	28	5.115	176	44.54	38	56.847	156	54.95	50
Nov. 6	14.26	86	85.79	33	44.140	217	69.56	7	4.939	163	44.16	71	56.691	141	55.45	43
16	13.40	82	85.46	91	43.923	186	69.49	42	4.776	143	43.45	104	56.550	119	55.88	37
26	12.58	77	84.55	147	43.737	145	69.07	76	4.633	117	42.41	136	56.431	91	56.25	31
Dez. 6	11.81	67	83.08	201	43.592	99	68.31	106	4.516	88	41.05	163	56.340	58	56.56	23
16	11.14	57	81.07	249	43.493	48	67.25	132	4.428	54	39.42	186	56.282	23	56.79	17
26	10.57	45	78.58	289	43.445	5	65.93	155	4.374	19	37.56	203	56.259	14	56.96	8
36	10.12		75.69		43.450		64.38		4.355		35.53		56.273		57.04	
Mittl. Ort	15.33		59.40		42.402		65.46		3.834		25.45		55.235		61.17	
sec δ, tg δ	3.806		+3.672		1.480		−1.091		1.071		+0.384		1.054		−0.331	
a, *a′*	−0.8		+12.4		+4.2		+12.5		+2.7		+12.6		+3.4		+12.7	
b, *b′*	+0.15		+ 0.79		−0.05		+ 0.78		+0.02		+ 0.78		−0.01		+ 0.77	

Tag	774) α Delphini AR.		774) α Delphini Dekl.		777) α Cygni AR.		777) α Cygni Dekl.		775) β Pavonis AR.		775) β Pavonis Dekl.		780) ε Cygni AR.		780) ε Cygni Dekl.	
1945	$20^h\ 37^m$		$+15°\ 42'$		$20^h\ 39^m$		$+45°\ 4'$		$20^h\ 39^m$		$-66°\ 23'$		$20^h\ 43^m$		$+33°\ 45'$	
	s		"		s		"		s		"		s		"	
Jan. 1	2.864	7	60.76	188	31.151	59	63.47	287	56.65	1	81.33	258	56.976	31	50.86	254
11	2.871	42	58.88	192	31.092	10	60.60	303	56.64	$\overline{8}$	78.75	275	56.945	$\overline{11}$	48.32	265
21	2.913	76	56.96	188	31.082	$\overline{42}$	57.57	307	56.72	17	76.00	285	56.956	52	45.67	268
31	2.989	110	55.08	176	31.124	93	54.50	300	56.89	26	73.15	287	57.008	94	42.99	258
Febr. 10	3.099	142	53.32	157	31.217	142	51.50	281	57.15	34	70.28	283	57.102	134	40.41	240
20	3.241	174	51.75	129	31.359	191	48.69	251	57.49	41	67.45	272	57.236	174	38.01	211
März 2	3.415	203	50.46	96	31.550	236	46.18	211	57.90	48	64.73	255	57.410	210	35.90	172
12	3.618	229	49.50	59	31.786	276	44.07	162	58.38	53	62.18	234	57.620	244	34.18	128
22	3.847	253	48.91	18	32.062	310	42.45	109	58.91	59	59.84	208	57.864	274	32.90	79
Apr. 1	4.100	274	48.73	$\overline{24}$	32.372	338	41.36	51	59.50	63	57.76	177	58.138	298	32.11	25
11	4.374	289	48.97	66	32.710	358	40.85	$\overline{9}$	60.13	65	55.99	143	58.436	316	31.86	$\overline{28}$
21	4.663	299	49.63	105	33.068	368	40.94	67	60.78	68	54.56	106	58.752	329	32.14	81
Mai 1	4.962	304	50.68	141	33.436	370	41.61	123	61.46	69	53.50	66	59.081	332	32.95	131
11	5.266	301	52.09	172	33.806	363	42.84	174	62.15	67	52.84	24	59.413	328	34.26	175
21	5.567	292	53.81	197	34.169	345	44.58	219	62.82	66	52.60	$\overline{18}$	59.741	316	36.01	214
31	5.859	275	55.78	215	34.514	318	46.77	257	63.48	62	52.78	60	60.057	296	38.15	247
Juni 10	6.134	251	57.93	228	34.832	283	49.34	287	64.10	57	53.38	100	60.353	268	40.62	270
20	6.385	222	60.21	234	35.115	241	52.21	309	64.67	51	54.38	139	60.621	233	43.32	288
30	6.607	186	62.55	234	35.356	192	55.30	323	65.18	43	55.77	173	60.854	192	46.20	297
Juli 10	6.793	145	64.89	228	35.548	139	58.53	329	65.61	34	57.50	202	61.046	146	49.17	300
20	6.938	101	67.17	216	35.687	83	61.82	326	65.95	24	59.52	225	61.192	98	52.17	294
30	7.039	57	69.33	201	35.770	25	65.08	317	66.19	14	61.77	241	61.290	47	55.11	283
Aug. 8	7.096	12	71.34	181	35.795	$\overline{32}$	68.25	301	66.33	4	64.18	249	61.337	$\overline{3}$	57.94	265
18	7.108	$\overline{32}$	73.15	159	35.763	87	71.26	278	66.37	$\overline{7}$	66.67	247	61.334	51	60.59	242
28	7.076	72	74.74	133	35.676	136	74.04	250	66.30	17	69.14	237	61.283	96	63.01	215
Sept. 7	7.004	107	76.07	107	35.540	180	76.54	216	66.13	26	71.51	218	61.187	135	65.16	183
17	6.897	135	77.14	78	35.360	217	78.70	177	65.87	33	73.69	190	61.052	166	66.99	148
27	6.762	156	77.92	49	35.143	244	80.47	136	65.54	39	75.59	154	60.886	191	68.47	109
Okt. 7	6.606	168	78.41	19	34.899	262	81.83	90	65.15	43	77.13	111	60.695	207	69.56	69
17	6.438	171	78.60	$\overline{11}$	34.637	271	82.73	42	64.72	45	78.24	64	60.488	213	70.25	27
27	6.267	166	78.49	41	34.366	268	83.15	$\overline{8}$	64.27	44	78.88	14	60.275	210	70.52	$\overline{17}$
Nov. 6	6.101	153	78.08	70	34.098	256	83.07	58	63.83	42	79.02	$\overline{38}$	60.065	200	70.35	61
16	5.948	133	77.38	98	33.842	237	82.49	109	63.41	38	78.64	88	59.865	181	69.74	103
26	5.815	108	76.40	125	33.605	208	81.40	156	63.03	31	77.76	135	59.684	156	68.71	145
Dez. 6	5.707	79	75.15	148	33.397	173	79.84	201	62.72	24	76.41	178	59.528	125	67.26	182
16	5.628	46	73.67	167	33.224	132	77.83	240	62.48	15	74.63	215	59.403	90	65.44	215
26	5.582	12	72.00	182	33.092	87	75.43	271	62.33	7	72.48	244	59.313	53	63.29	241
36	5.570		70.18		33.005		72.72		62.26		70.04		59.260		60.88	
Mittl. Ort	4.934		60.87		33.321		58.76		61.63		69.91		59.035		47.84	
sec δ, tg δ	1.039		+0.281		1.416		+1.003		2.498		−2.289		1.203		+0.669	
a, *a′*	+2.8		+12.7		+2.0		+12.9		+5.4		+12.9		+2.4		+13.1	
b, *b′*	+0.01		+ 0.77		+0.04		+ 0.77		−0.10		+ 0.77		+0.03		+ 0.75	

Scheinbare Sternörter 1945

Tag	783) η Cephei AR.		783) η Cephei Dekl.		781) ε Aquarii AR.		781) ε Aquarii Dekl.		785) β Indi AR.		785) β Indi Dekl.		786) 32 Vulpeculae AR.		786) 32 Vulpeculae Dekl.	
1945	$20^h\ 44^m$		+61° 37′		$20^h\ 44^m$		−9° 41′		$20^h\ 50^m$		−58° 39′		$20^h\ 52^m$		+27° 50′	
	s		″		s		″		s		″		s		″	
Jan. 1	7.84	16	35.99	302	39.746	21	58.94	53	27.674	7	59.82	219	10.829	26	52.94	230
11	7.68	9	32.97	325	39.767	56	59.47	48	27.667	60	57.63	239	10.803	11	50.64	241
21	7.59	0	29.72	335	39.823	87	59.95	38	27.727	128	55.24	252	10.814	49	48.23	241
31	7.59	7	26.37	334	39.910	119	60.33	26	27.855	192	52.72	258	10.863	87	45.82	233
Febr. 10	7.66	16	23.03	318	40.029	149	60.59	10	28.047	253	50.14	259	10.950	125	43.49	215
20	7.82	23	19.85	291	40.178	178	60.69	7	28.300	309	47.55	254	11.075	161	41.34	188
März 2	8.05	31	16.94	252	40.356	204	60.62	27	28.609	362	45.01	244	11.236	195	39.46	152
12	8.36	37	14.42	204	40.560	230	60.35	49	28.971	408	42.57	229	11.431	228	37.94	110
22	8.73	42	12.38	148	40.790	254	59.86	70	29.379	449	40.28	209	11.659	256	36.84	64
Apr. 1	9.15	46	10.90	88	41.044	273	59.16	91	29.828	484	38.19	186	11.915	281	36.20	15
11	9.61	49	10.02	24	41.317	290	58.25	109	30.312	511	36.33	159	12.196	301	36.05	35
21	10.10	50	9.78	39	41.607	303	57.16	125	30.823	531	34.74	127	12.497	313	36.40	84
Mai 1	10.60	51	10.17	100	41.910	309	55.91	137	31.354	541	33.47	93	12.810	320	37.24	130
11	11.11	49	11.17	158	42.219	309	54.54	145	31.895	540	32.54	56	13.130	318	38.54	170
21	11.60	46	12.75	210	42.528	303	53.09	147	32.435	529	31.98	18	13.448	309	40.24	206
31	12.06	41	14.85	254	42.831	290	51.62	146	32.964	505	31.80	21	13.757	292	42.30	235
Juni 10	12.47	37	17.39	292	43.121	269	50.16	139	33.469	469	32.01	60	14.049	267	44.65	256
20	12.84	30	20.31	321	43.390	242	48.77	129	33.938	422	32.61	97	14.316	235	47.21	271
30	13.14	23	23.52	342	43.632	209	47.48	116	34.360	364	33.58	131	14.551	198	49.92	278
Juli 10	13.37	15	26.94	354	43.841	169	46.32	99	34.724	296	34.89	162	14.749	156	52.70	279
20	13.52	7	30.48	358	44.010	127	45.33	82	35.020	222	36.51	187	14.905	109	55.49	273
30	[2] 13.59	1	34.06	353	[2] 44.137	82	44.51	62	[4] 35.242	142	38.38	206	[4] 15.014	61	58.22	261
Aug. 8	13.58	9	37.59	341	44.219	37	43.89	43	35.384	59	40.44	219	15.075	14	60.83	243
18	13.49	16	41.00	321	44.256	8	43.46	25	35.443	24	42.63	222	15.089	32	63.26	221
28	13.33	24	44.21	295	44.248	49	43.21	9	35.419	101	44.85	219	15.057	76	65.47	195
Sept. 7	13.09	29	47.16	262	44.199	85	43.12	7	35.318	172	47.04	205	14.981	114	67.42	164
17	12.80	35	49.78	223	44.114	116	43.19	21	35.146	232	49.09	184	14.867	145	69.06	132
27	12.45	40	52.01	180	43.998	137	43.40	31	34.914	281	50.93	156	14.722	170	70.38	97
Okt. 7	12.05	42	53.81	132	43.861	151	43.71	39	34.633	312	52.49	120	14.552	185	71.35	60
17	11.63	44	55.13	80	43.710	154	44.10	46	34.321	328	53.69	79	14.367	191	71.95	21
27	11.19	44	55.93	25	43.556	150	44.56	51	33.993	327	54.48	35	14.176	191	72.16	18
Nov. 6	10.75	43	56.18	31	43.406	138	45.07	55	33.666	310	54.83	11	13.985	181	71.98	57
16	10.32	42	55.87	88	43.268	117	45.62	57	33.356	277	54.72	57	13.804	164	71.41	96
26	9.90	37	54.99	144	43.151	92	46.19	58	33.079	232	54.15	100	13.640	141	70.45	133
Dez. 6	9.53	33	53.55	196	43.059	62	46.77	59	32.847	176	53.15	140	13.499	113	69.12	166
16	9.20	27	51.59	242	42.997	30	47.36	58	32.671	114	51.75	176	13.386	81	67.46	195
26	8.93	21	49.17	282	42.967	4	47.94	55	32.557	46	49.99	205	13.305	46	65.51	218
36	8.72		46.35		42.971		48.49		32.511		47.94		13.259		63.33	
Mittl. Ort	10.40		29.01		41.976		54.07		31.609		47.86		12.844		50.89	
sec δ, tg δ	2.104		+1.851		1.015		−0.171		1.923		−1.642		1.131		+0.528	
a, a′	+1.2		+13.2		+3.2		+13.2		+4.7		+13.6		+2.6		+13.7	
b, b′	+0.08		+ 0.75		−0.01		+ 0.75		−0.07		+ 0.74		+0.02		+ 0.73	

Tag	788) ν Cygni AR.		788) ν Cygni Dekl.		790) ζ Microscopii AR.		790) ζ Microscopii Dekl.		793) 61 Cygni *pr*[1]) AR.		793) 61 Cygni *pr*[1]) Dekl.		794) ν Aquarii AR.		794) ν Aquarii Dekl.	
1945	$20^h\ 55^m$		$+40°\ 56'$		$20^h\ 59^m$		$-38°\ 50'$		$21^h\ 4^m$		$+38°\ 28'$		$21^h\ 6^m$		$-11°\ 35'$	
	s		″		s		″		s		″		s		″	
Jan. 1	5.167	62	81.05	267	24.673	6	61.80	114	23.661	51	44.61	246	33.788	2	50.17	40
11	5.105	18	78.38	284	24.679	49	60.66	131	23.610	9	42.15	263	33.790	35	50.57	31
21	5.087	$\overline{28}$	75.54	289	24.728	92	59.35	145	23.601	$\overline{34}$	39.52	269	33.825	67	50.88	21
31	5.115	75	72.65	285	24.820	132	57.90	158	23.635	79	36.83	265	33.892	98	51.09	8
Febr. 10	5.190	121	69.80	269	24.952	171	56.32	166	23.714	123	34.18	248	33.990	128	51.17	$\overline{7}$
20	5.311	166	67.11	241	25.123	208	54.66	172	23.837	167	31.70	223	34.118	159	51.10	25
März 2	5.477	209	64.70	204	25.331	242	52.94	175	24.004	208	29.47	187	34.277	187	50.85	45
12	5.686	249	62.66	159	25.573	276	51.19	176	24.212	247	27.60	143	34.464	215	50.40	64
22	5.935	284	61.07	108	25.849	305	49.43	174	24.459	281	26.17	93	34.679	241	49.76	85
Apr. 1	6.219	313	59.99	53	26.154	331	47.69	167	24.740	311	25.24	40	34.920	265	48.91	105
11	6.532	335	59.46	4	26.485	353	46.02	158	25.051	334	24.84	16	35.185	284	47.86	121
21	6.867	349	59.50	60	26.838	371	44.44	145	25.385	349	25.00	71	35.469	300	46.65	135
Mai 1	7.216	355	60.10	114	27.209	381	42.99	127	25.734	356	25.71	123	35.769	310	45.30	145
11	7.571	352	61.24	164	27.590	384	41.72	107	26.090	355	26.94	172	36.079	315	43.85	152
21	7.923	339	62.88	209	27.974	379	40.65	83	26.445	345	28.66	214	36.394	311	42.33	152
31	8.262	319	64.97	245	28.353	366	39.82	57	26.790	325	30.80	251	36.705	301	40.81	150
Juni 10	8.581	288	67.42	276	28.719	343	39.25	29	27.115	298	33.31	280	37.006	284	39.31	141
20	8.869	251	70.18	298	29.062	313	38.96	0	27.413	263	36.11	302	37.290	259	37.90	130
30	9.120	207	73.16	312	29.375	274	38.96	30	27.676	222	39.13	316	37.549	228	36.60	114
Juli 10	9.327	159	76.28	319	29.649	228	39.26	57	27.898	174	42.29	321	37.777	190	35.46	97
20	9.486	106	79.47	318	29.877	177	39.83	82	28.072	124	45.50	321	37.967	149	34.49	77
30	9.592	51	82.65	309	30.054	122	40.65	104	28.196	72	48.71	312	38.116	105	33.72	57
Aug. 8	[5] 9.643	$\overline{2}$	85.74	294	[6] 30.176	65	41.69	122	[7] 28.268	19	51.83	297	[8] 38.221	58	33.15	36
18	9.641	55	88.68	274	30.241	8	42.91	134	28.287	$\overline{32}$	54.80	276	38.279	13	32.79	18
28	9.586	103	91.42	247	30.249	$\overline{46}$	44.25	141	28.255	79	57.56	250	38.292	$\overline{29}$	32.61	$\overline{1}$
Sept. 7	9.483	146	93.89	216	30.203	94	45.66	141	28.176	122	60.06	219	38.263	67	32.62	16
17	9.337	183	96.05	179	30.109	136	47.07	135	28.054	158	62.25	185	38.196	100	32.78	30
27	9.154	210	97.84	140	29.973	167	48.42	123	27.896	185	64.10	145	38.096	125	33.08	39
Okt. 7	8.944	230	99.24	97	29.806	189	49.65	105	27.711	205	65.55	104	37.971	142	33.47	47
17	8.714	240	100.21	51	29.617	199	50.70	83	27.506	215	66.59	61	37.829	149	33.94	53
27	8.474	241	100.72	4	29.418	198	51.53	57	27.291	216	67.20	14	37.680	149	34.47	55
Nov. 6	8.233	232	100.76	$\overline{44}$	29.220	186	52.10	30	27.075	210	67.34	$\overline{32}$	37.531	139	35.02	56
16	8.001	216	100.32	92	29.034	164	52.40	1	26.865	194	67.02	78	37.392	123	35.58	55
26	7.785	192	99.40	139	28.870	134	52.41	$\overline{28}$	26.671	172	66.24	122	37.269	101	36.13	55
Dez. 6	7.593	162	98.01	181	28.736	99	52.13	55	26.499	144	65.02	164	37.168	75	36.68	51
16	7.431	126	96.20	219	28.637	59	51.58	80	26.355	111	63.38	201	37.093	45	37.19	48
26	7.305	87	94.01	251	28.578	17	50.78	102	26.244	73	61.37	230	37.048	14	37.67	43
36	7.218		91.50		28.561		49.76		26.171		59.07		37.034		38.10	
Mittl. Ort	7.234		76.66		27.445		51.25		25.684		40.72		35.965		43.98	
sec δ, tg δ	1.324		+0.868		1.284		−0.805		1.277		+0.795		1.021		−0.205	
a, *a′*	+2.2		+13.9		+3.8		+14.1		+2.3		+14.4		+3.3		+14.6	
b, *b′*	+0.04		+ 0.72		−0.04		+ 0.7		+0.04		+ 0.69		−0.01		+ 0.69	

[1]) Die jährliche Parallaxe (0″.299) ist bereits berücksichtigt.

Scheinbare Sternörter 1945

Tag	795) Br 2777 Ceph				797) ζ Cygni				800) α Equulei				803) α Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$21^h\ 6^m$		$+77°\ 53'$		$21^h\ 10^m$		$+29°\ 59'$		$21^h\ 13^m$		$+5°\ 1'$		$21^h\ 17^m$		$+62°\ 20'$	
	s		"		s		"		s		"		s		"	
Jan. 1	33.95	61	83.20	276	33.639	48	64.20	226	2.441	13	7.12	125	13.63	22	75.66	275
11	33.34	43	80.44	310	33.591	12	61.94	240	2.428	$\overline{18}$	5.87	124	13.41	16	72.91	306
21	32.91	25	77.34	331	33.579	$\overline{27}$	59.54	244	2.446	49	4.63	119	13.25	7	69.85	325
31	32.66	5	74.03	340	33.606	65	57.10	239	2.495	80	3.44	109	13.18	0	66.60	331
Febr. 10	32.61	$\overline{14}$	70.63	336	33.671	104	54.71	224	2.575	111	2.35	91	13.18	9	63.29	324
20	32.75	34	67.27	318	33.775	142	52.47	199	2.686	142	1.44	70	13.27	18	60.05	305
März 2	33.09	52	64.09	288	33.917	179	50.48	166	2.828	172	0.74	43	13.45	25	57.00	274
12	33.61	68	61.21	248	34.096	215	48.82	126	3.000	201	0.31	14	13.70	32	54.26	233
22	34.29	81	58.73	198	34.311	247	47.56	80	3.201	228	0.17	$\overline{19}$	14.02	39	51.93	182
Apr. 1	35.10	92	56.75	142	34.558	275	46.76	31	3.429	252	0.36	52	14.41	44	50.11	126
11	36.02	100	55.33	81	34.833	298	46.45	$\overline{20}$	3.681	274	0.88	84	14.85	48	48.85	65
21	37.02	103	54.52	17	35.131	314	46.65	69	3.955	289	1.72	114	15.33	51	48.20	2
Mai 1	38.05	104	54.35	$\overline{45}$	35.445	324	47.34	117	4.244	300	2.86	140	15.84	52	48.18	$\overline{60}$
11	39.09	101	54.80	105	35.769	327	48.51	160	4.544	305	4.26	163	16.36	52	48.78	119
21	40.10	95	55.85	162	36.096	319	50.11	198	4.849	302	5.89	181	16.88	50	49.97	174
31	41.05	86	57.47	212	36.415	305	52.09	230	5.151	292	7.70	191	17.38	46	51.71	223
Juni 10	41.91	75	59.59	257	36.720	282	54.39	255	5.443	275	9.61	198	17.84	42	53.94	266
20	42.66	61	62.16	293	37.002	253	56.94	272	5.718	250	11.59	198	18.26	36	56.60	300
30	43.27	47	65.09	323	37.255	216	59.66	283	5.968	219	13.57	194	18.62	29	59.60	328
Juli 10	43.74	30	68.32	344	37.471	174	62.49	287	6.187	183	15.51	184	18.91	22	62.88	346
20	44.04	13	71.76	357	37.645	128	65.36	283	6.370	142	17.35	170	19.13	14	66.34	357
30	44.17	$\overline{4}$	75.33	361	37.773	80	68.19	274	6.512	99	19.05	154	19.27	6	69.91	359
Aug. 8*)	44.13	21	78.94	358	37.853	32	70.93	258	6.611	55	20.59	134	19.33	$\overline{2}$	73.50	353
18	43.92	37	82.52	347	37.885	$\overline{16}$	73.51	238	6.666	11	21.93	113	19.31	10	77.03	340
28	43.55	53	85.99	328	37.869	60	75.89	213	6.677	$\overline{30}$	23.06	91	19.21	18	80.43	320
Sept. 7	43.02	67	89.27	303	37.809	101	78.02	184	6.647	68	23.97	68	19.03	25	83.63	293
17	42.35	80	92.30	271	37.708	134	79.86	152	6.579	98	24.65	46	18.78	30	86.56	258
27	41.55	90	95.01	233	37.574	161	81.38	117	6.481	123	25.11	23	18.48	36	89.14	219
Okt. 7	40.65	99	97.34	188	37.413	180	82.55	80	6.358	140	25.34	2	18.12	39	91.33	175
17	39.66	106	99.22	138	37.233	190	83.35	41	6.218	149	25.36	$\overline{18}$	17.73	42	93.08	125
27	38.60	108	100.60	85	37.043	192	83.76	1	6.069	148	25.18	38	17.31	44	94.33	72
Nov. 6	37.52	110	101.45	28	36.851	186	83.77	$\overline{40}$	5.921	142	24.80	56	16.87	44	95.05	15
16	36.42	108	101.73	$\overline{32}$	36.665	173	83.37	81	5.779	128	24.24	73	16.43	42	95.20	$\overline{42}$
26	35.34	102	101.41	91	36.492	154	82.56	119	5.651	108	23.51	89	16.01	41	94.78	99
Dez. 6	34.32	95	100.50	149	36.338	129	81.37	155	5.543	85	22.62	102	15.60	37	93.79	154
16	33.37	84	99.01	202	36.209	99	79.82	186	5.458	57	21.60	114	15.23	32	92.25	206
26	32.53	71	96.99	250	36.110	67	77.96	212	5.401	29	20.46	120	14.91	26	90.19	250
36	31.82		94.49		36.043		75.84		5.372		19.26		14.65		87.69	
Mittl. Ort	38.01		73.84		35.591		61.65		4.443		9.97		16.01		67.47	
sec δ, tg δ	4.772		+4.666		1.155		+0.577		1.004		+0.088		2.155		+1.909	
a, *a'*	−1.2		+14.6		+2.6		+14.8		+3.0		+15.0		+1.4		+15.2	
b, *b'*	+0.23		+ 0.69		+0.03		+ 0.67		0.00		+ 0.67		+0.10		+ 0.65	

*) Bei Stern 797), 800) und 803) lies Aug. 9.

Tag	804) ι Pegasi AR.		Dekl.		805) γ Pavonis[1] AR.		Dekl.		806) ζ Capricorni AR.		Dekl.		809) β Cephei AR.		Dekl.	
1945	$21^h\ 19^m$		+19° 33′		$21^h\ 21^m$		−65° 36′		$21^h\ 23^m$		−22° 38′		$21^h\ 27^m$		+70° 18′	
	s		″		s		″		s		″		s		″	
Jan. 1	30.556	36	66.13	184	50.92	10	75.36	243	29.543	12	71.64	21	54.73	38	78.34	263
11	30.520	3	64.29	193	50.82	2	72.93	270	29.531	21	71.43	36	54.35	28	75.71	298
21	30.517	29	62.36	194	50.80	7	70.23	289	29.552	55	71.07	51	54.07	17	72.73	323
31	30.546	64	60.42	186	50.87	15	67.34	300	29.607	87	70.56	66	53.90	6	69.50	335
Febr. 10	30.610	98	58.56	172	51.02	23	64.34	305	29.694	120	69.90	80	53.84	6	66.15	334
20	30.708	132	56.84	148	51.25	30	61.29	303	29.814	152	69.10	96	53.90	18	62.81	319
März 2	30.840	166	55.36	118	51.55	38	58.26	294	29.966	184	68.14	110	54.08	29	59.62	293
12	31.006	198	54.18	82	51.93	44	55.32	278	30.150	213	67.04	124	54.37	40	56.69	255
22	31.204	229	53.36	42	52.37	50	52.54	259	30.363	243	65.80	135	54.77	49	54.14	207
Apr. 1	31.433	255	52.94	1	52.87	55	49.95	232	30.606	269	64.45	146	55.26	57	52.07	153
11	31.688	279	52.95	44	53.42	60	47.63	202	30.875	292	62.99	153	55.83	62	50.54	93
21	31.967	296	53.39	86	54.02	63	45.61	167	31.167	312	61.46	156	56.45	66	49.61	31
Mai 1	32.263	307	54.25	125	54.65	65	43.94	128	31.479	325	59.90	155	57.11	68	49.30	32
11	32.570	313	55.50	162	55.30	65	42.66	87	31.804	333	58.35	151	57.79	68	49.62	93
21	32.883	309	57.12	192	55.95	66	41.79	43	32.137	333	56.84	141	58.47	66	50.55	150
31	33.192	298	59.04	216	56.61	63	41.36	2	32.470	325	55.43	128	59.13	61	52.05	203
Juni 10	33.490	279	61.20	233	57.24	60	41.38	47	32.795	310	54.15	110	59.74	54	54.08	249
20	33.769	254	63.53	246	57.84	55	41.85	90	33.105	286	53.05	91	60.28	48	56.57	288
30	34.023	221	65.99	250	58.39	48	42.75	131	33.391	256	52.14	68	60.76	38	59.45	319
Juli 10	34.244	183	68.49	250	58.87	42	44.06	168	33.647	218	51.46	44	61.14	29	62.64	343
20	34.427	141	70.99	242	59.29	32	45.74	199	33.865	176	51.02	20	61.43	18	66.07	358
30	34.568	97	73.41	230	59.61	22	47.73	224	34.041	130	50.82	4	61.61	8	69.65	365
Aug. 9	34.665	51	75.71	213	59.83	13	49.97	242	34.171	81	50.86	25	61.69	3	73.30	363
18	[11] 34.716	6	77.84	192	[12] 59.96	2	52.39	250	[12] 34.252	33	51.11	45	[13] 61.66	14	76.93	355
28	34.722	36	79.76	169	59.98	8	54.89	250	34.285	13	51.56	61	61.52	24	80.48	339
Sept. 7	34.686	75	81.45	143	59.90	17	57.39	240	34.272	55	52.17	73	61.28	34	83.87	315
17	34.611	108	82.88	113	59.73	25	59.79	220	34.217	92	52.90	80	60.94	42	87.02	284
27	34.503	133	84.01	84	59.48	33	61.99	191	34.125	121	53.70	84	60.52	49	89.86	247
Okt. 7	34.370	152	84.85	53	59.15	38	63.90	155	34.004	142	54.54	82	60.03	55	92.33	204
17	34.218	162	85.38	21	58.77	41	65.45	111	33.862	154	55.36	77	59.48	60	94.37	156
27	34.056	164	85.59	12	58.36	42	66.56	62	33.708	156	56.13	69	58.88	62	95.93	103
Nov. 6	33.892	160	85.47	43	57.94	42	67.18	11	33.552	149	56.82	57	58.26	63	96.96	47
16	33.732	147	85.04	75	57.52	40	67.29	42	33.403	136	57.39	45	57.63	63	97.43	13
26	33.585	130	84.29	104	57.12	35	66.87	93	33.267	115	57.84	30	57.00	61	97.30	72
Dez. 6	33.455	107	83.25	132	56.77	29	65.94	142	33.152	89	58.14	16	56.39	56	96.58	130
16	33.348	81	81.93	155	56.48	22	64.52	186	33.063	61	58.30	1	55.83	51	95.28	186
26	33.267	52	80.38	174	56.26	15	62.66	224	33.002	28	58.31	13	55.32	43	93.42	234
36	33.215		78.64		56.11		60.42		32.974		58.18		54.89		91.08	
Mittl. Ort	32.475		65.81		55.38		60.02		31.812		62.34		57.48		68.86	
sec δ, tg δ	1.061		+0.355		2.422		−2.206		1.084		−0.417		2.969		+2.796	
a, *a′*	+2.8		+15.3		+4.9		+15.5		+3.4		+15.6		+0.8		+15.8	
b, *b′*	+0.02		+ 0.64		−0.11		+ 0.64		−0.02		+ 0.63		+0.15		+ 0.62	

[1]) Die jährliche Parallaxe (0.″113) ist bereits berücksichtigt.

Tag		808) β Aquarii AR.		808) β Aquarii Dekl.		811) 74 Cygni AR.		811) 74 Cygni Dekl.		810) ν Octantis AR.		810) ν Octantis Dekl.		815) ε Pegasi AR.		815) ε Pegasi Dekl.	
1945		$21^h 28^m$		$-5° 48'$		$21^h 34^m$		$+40° 9'$		$21^h 35^m$		$-77° 37'$		$21^h 41^m$		$+9° 37'$	
		s		"		s		"		s		"		s		"	
Jan.	1	37.831	19	56.64	67	42.592	99	61.67	236	19.02	34	87.26	277	27.156	39	16.80	135
	11	37.812	11	57.31	60	42.493	61	59.31	257	18.68	19	84.49	308	27.117	12	15.45	138
	21	37.823	41	57.91	52	42.432	18	56.74	270	18.49	1	81.41	329	27.105	17	14.07	136
	31	37.864	71	58.43	39	42.414	25	54.04	273	18.48	15	78.12	342	27.122	48	12.71	127
Febr.	10	37.935	102	58.82	22	42.439	71	51.31	263	18.63	31	74.70	346	27.170	80	11.44	113
	20	38.037	132	59.04	3	42.510	117	48.68	244	18.94	47	71.24	341	27.250	113	10.31	92
März	2	38.169	163	59.07	19	42.627	163	46.24	214	19.41	61	67.83	330	27.363	144	9.39	66
	12	38.332	192	58.88	42	42.790	207	44.10	175	20.02	74	64.53	311	27.507	177	8.73	36
	22	38.524	220	58.46	68	42.997	247	42.35	129	20.76	87	61.42	285	27.684	208	8.37	2
Apr.	1	38.744	246	57.78	92	43.244	284	41.06	79	21.63	97	58.57	253	27.892	236	8.35	34
	11	38.990	270	56.86	114	43.528	314	40.27	25	22.60	105	56.04	217	28.128	261	8.69	69
	21	39.260	288	55.72	134	43.842	337	40.02	30	23.65	112	53.87	176	28.389	282	9.38	103
Mai	1	39.548	302	54.38	151	44.179	352	40.32	84	24.77	116	52.11	130	28.671	298	10.41	134
	11	39.850	310	52.87	162	44.531	357	41.16	134	25.93	118	50.81	83	28.969	306	11.75	161
	21	40.160	310	51.25	170	44.888	354	42.50	181	27.11	118	49.98	33	29.275	307	13.36	183
	31	40.470	303	49.55	172	45.242	340	44.31	220	28.29	115	49.65	18	29.582	302	15.19	200
Juni	10	40.773	288	47.83	170	45.582	318	46.51	255	29.44	109	49.83	68	29.884	288	17.19	211
	20	41.061	267	46.13	161	45.900	287	49.06	282	30.53	100	50.51	116	30.172	266	19.30	216
	30	41.328	238	44.52	150	46.187	249	51.88	300	31.53	90	51.67	161	30.438	239	21.46	216
Juli	10	41.566	203	43.02	135	46.436	204	54.88	313	32.43	75	53.28	201	30.677	204	23.62	210
	20	41.769	163	41.67	116	46.640	156	58.01	316	33.18	60	55.29	236	30.881	166	25.72	199
	30	41.932	121	40.51	97	46.796	104	61.17	314	33.78	43	57.65	262	31.047	123	27.71	184
Aug.	9	$_{14}$42.053	76	39.54	75	$_{15}$46.900	50	64.31	304	$_{15}$34.21	24	60.27	280	$_{17}$31.170	80	29.55	166
	18	42.129	32	38.79	54	46.950	2	67.35	288	34.45	5	63.07	289	31.250	36	31.21	146
	28	42.161	11	38.25	34	46.948	52	70.23	266	34.50	13	65.96	288	31.286	7	32.67	123
Sept.	7	42.150	49	37.91	14	46.896	97	72.89	239	34.37	32	68.84	275	31.279	45	33.90	99
	17	42.101	83	37.77	3	46.799	138	75.28	208	34.05	49	71.59	252	31.234	79	34.89	75
	27	42.018	110	37.80	18	46.661	171	77.36	172	33.56	63	74.11	219	31.155	106	35.64	50
Okt.	7	41.908	128	37.98	31	46.490	196	79.08	132	32.93	75	76.30	177	31.049	126	36.14	26
	17	41.780	140	38.29	43	46.294	213	80.40	90	32.18	83	78.07	127	30.923	140	36.40	2
	27	41.640	142	38.72	51	46.081	221	81.30	45	31.35	88	79.34	72	30.783	144	36.42	21
Nov.	6	41.498	138	39.23	58	45.860	221	81.75	2	30.47	89	80.06	14	30.639	142	36.21	44
	16	41.360	125	39.81	64	45.639	214	81.73	49	29.58	86	80.20	47	30.497	134	35.77	65
	26	41.235	108	40.45	67	45.425	199	81.24	96	28.72	79	79.73	106	30.363	120	35.12	84
Dez.	6	41.127	86	41.12	70	45.226	178	80.28	140	27.93	70	78.67	161	30.243	101	34.28	102
	16	41.041	61	41.82	69	45.048	150	78.88	181	27.23	58	77.06	212	30.142	78	33.26	118
	26	40.980	33	42.51	68	44.898	119	77.07	215	26.65	43	74.94	256	30.064	54	32.08	128
	36	40.947		43.19		44.779		74.92		26.22		72.38		30.010		30.80	
Mittl. Ort		39.858		50.84		44.484		56.80		26.54		70.04		29.022		19.13	
sec δ, tg δ		1.005		—0.102		1.309		+0.844		4.670		—4.562		1.014		+0.169	
a, a'		+3.2		+15.8		+2.4		+16.2		+6.7		+16.2		+2.9		+16.5	
b, b'		—0.01		+ 0.61		+0.05		+ 0.59		—0.25		+ 0.59		+0.01		+ 0.57	

Tag	819) δ Capricorni AR.		819) δ Capricorni Dekl.		821) π² Cygni AR.		821) π² Cygni Dekl.		823) 16 Pegasi AR.		823) 16 Pegasi Dekl.		822) γ Gruis AR.		822) γ Gruis Dekl.	
1945	21h 43m		−16° 22′		21h 44m		+49° 2′		21h 50m		+25° 39′		21h 50m		−37° 37′	
	s		″		s		″		s		″		s		″	
Jan. 1	58.357	29	49.04	13	43.570	150	82.77	241	31.639	71	57.87	188	33.824	50	41.87	94
11	58.328	1	49.17	0	43.420	105	80.36	269	31.568	42	55.99	202	33.774	12	40.93	119
21	58.329	31	49.17	14	43.315	57	77.67	289	31.526	9	53.97	209	33.762	25	39.74	142
31	58.360	62	49.03	29	43.258	4	74.78	296	31.517	25	51.88	208	33.787	63	38.32	160
Febr. 10	58.422	93	48.74	46	43.254	50	71.82	292	31.542	62	49.80	197	33.850	102	36.72	177
20	58.515	124	48.28	64	43.304	107	68.90	276	31.604	99	47.83	179	33.952	140	34.95	190
März 2	58.639	156	47.64	83	43.411	162	66.14	249	31.703	136	46.04	151	34.092	177	33.05	200
12	58.795	187	46.81	100	43.573	216	63.65	212	31.839	173	44.53	117	34.269	215	31.05	207
22	58.982	218	45.81	118	43.789	266	61.53	166	32.012	209	43.36	77	34.484	251	28.98	209
Apr. 1	59.200	246	44.63	134	44.055	310	59.87	115	32.221	243	42.59	34	34.735	285	26.89	209
11	59.446	272	43.29	147	44.365	347	58.72	59	32.464	271	42.25	12	35.020	315	24.80	203
21	59.718	293	41.82	158	44.712	374	58.13	1	32.735	294	42.37	58	35.335	341	22.77	193
Mai 1	60.011	310	40.24	164	45.086	393	58.12	56	33.029	312	42.95	102	35.676	361	20.84	180
11	60.321	321	38.60	165	45.479	400	58.68	112	33.341	321	43.97	143	36.037	375	19.04	160
21	60.642	324	36.95	163	45.879	396	59.80	164	33.662	323	45.40	179	36.412	380	17.44	136
31	60.966	320	35.32	154	46.275	381	61.44	210	33.985	316	47.19	211	36.792	376	16.08	110
Juni 10	61.286	307	33.78	143	46.656	357	63.54	249	34.301	302	49.30	235	37.168	365	14.98	81
20	61.593	288	32.35	127	47.013	322	66.03	283	34.603	278	51.65	254	37.533	342	14.17	48
30	61.881	260	31.08	107	47.335	279	68.86	308	34.881	248	54.19	265	37.875	312	13.69	15
Juli 10	62.141	227	30.01	86	47.614	229	71.94	326	35.129	212	56.84	270	38.187	274	13.54	17
20	62.368	187	29.15	62	47.843	174	75.20	336	35.341	171	59.54	269	38.461	228	13.71	50
30	62.555	144	28.53	39	48.017	116	78.56	338	35.512	126	62.23	261	38.689	178	14.21	80
Aug. 9	62.699	98	28.14	15	48.133	56	81.94	333	35.638	80	64.84	248	38.867	124	15.01	105
18*)	[18] 62.797	52	27.99	6	[18] 48.189	3	85.27	321	35.718	33	67.32	232	38.991	68	16.06	126
28	62.849	7	28.05	26	48.186	60	88.48	302	[19] 35.751	11	69.64	209	[19] 39.059	13	17.32	141
Sept. 7	62.856	35	28.31	43	48.126	113	91.50	277	35.740	52	71.73	184	39.072	38	18.73	151
17	62.821	71	28.74	56	48.013	160	94.27	246	35.688	88	73.57	155	39.034	84	20.24	153
27	62.750	101	29.30	65	47.853	199	96.73	211	35.600	118	75.12	125	38.950	123	21.77	149
Okt. 7	62.649	123	29.95	70	47.654	231	98.84	170	35.482	141	76.37	92	38.827	152	23.26	137
17	62.526	137	30.65	72	47.423	253	100.54	125	35.341	157	77.29	58	38.675	172	24.63	120
27	62.389	143	31.37	70	47.170	267	101.79	77	35.184	166	77.87	22	38.503	183	25.83	97
Nov. 6	62.246	140	32.07	66	46.903	272	102.56	27	35.018	166	78.09	14	38.320	182	26.80	71
16	62.106	131	32.73	59	46.631	268	102.83	26	34.852	161	77.95	50	38.138	172	27.51	42
26	61.975	115	33.32	51	46.363	255	102.57	77	34.691	149	77.45	85	37.966	155	27.93	10
Dez. 6	61.860	94	33.83	42	46.108	234	101.80	128	34.542	132	76.60	118	37.811	130	28.03	20
16	61.766	70	34.25	31	45.874	207	100.52	175	34.410	110	75.42	147	37.681	101	27.83	51
26	61.696	43	34.56	19	45.667	172	98.77	217	34.300	86	73.95	173	37.580	68	27.32	79
36	61.653		34.75		45.495		96.60		34.214		72.22		37.512		26.53	
Mittl. Ort	60.436		40.11		45.489		75.99		33.425		56.22		36.272		27.95	
sec δ, tg δ	1.042		−0.294		1.526		+1.153		1.110		+0.481		1.263		−0.771	
a, *a′*	+3.3		+16.6		+2.2		+16.7		+2.7		+16.9		+3.6		+16.9	
b, *b′*	−0.02		+ 0.56		+0.06		+ 0.56		+0.03		+ 0.54		−0.04		+ 0.54	

*) Bei Stern 823) und 822) lies Aug. 19.

Scheinbare Sternörter 1945

Tag	827) α Aquarii				830) 20 Cephei				828) ι Aquarii				829) α Gruis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	22h 2m		−0° 35′		22h 3m		+62° 30′		22h 3m		−14° 8′		22h 4m		−47° 13′	
	s		″		s		″		s		″		s		″	
Jan. 1	55.706	47	21.56	85	17.99	30	70.37	228	26.148	44	23.54	24	43.890	86	58.15	134
11	55.659	22	22.41	82	17.69	23	68.09	267	26.104	17	23.78	11	43.804	44	56.81	165
21	55.637	$\overline{6}$	23.23	74	17.46	16	65.42	296	26.087	$\overline{10}$	23.89	$\overline{4}$	43.760	0	55.16	192
31	55.643	33	23.97	63	17.30	9	62.46	314	26.097	40	23.85	19	43.760	44	53.24	214
Febr. 10	55.676	64	24.60	48	17.21	$\underline{1}$	59.32	319	26.137	70	23.66	37	43.804	90	51.10	231
20	55.740	95	25.08	27	17.20	8	56.13	312	26.207	102	23.29	56	43.894	135	48.79	244
März 2	55.835	127	25.35	5	17.28	17	53.01	291	26.309	134	22.73	75	44.029	181	46.35	252
12	55.962	159	25.40	$\overline{21}$	17.45	24	50.10	260	26.443	166	21.98	96	44.210	225	43.83	255
22	56.121	191	25.19	48	17.69	32	47.50	218	26.609	198	21.02	115	44.435	268	41.28	252
Apr. 1	56.312	221	24.71	76	18.01	39	45.32	169	26.807	229	19.87	133	44.703	308	38.76	245
11	56.533	248	23.95	103	18.40	44	43.63	113	27.036	257	18.54	149	45.011	344	36.31	233
21	56.781	273	22.92	128	18.84	49	42.50	54	27.293	281	17.05	162	45.355	377	33.98	216
Mai 1	57.054	292	21.64	150	19.33	51	41.96	$\overline{6}$	27.574	301	15.43	171	45.732	402	31.82	193
11	57.346	304	20.14	168	19.84	53	42.02	66	27.875	314	13.72	175	46.134	421	29.89	167
21	57.650	310	18.46	181	20.37	52	42.68	124	28.189	321	11.97	175	46.555	429	28.22	135
31	57.960	309	16.65	188	20.89	51	43.92	178	28.510	320	10.22	170	46.984	428	26.87	101
Juni 10	58.269	298	14.77	192	21.40	47	45.70	225	28.830	310	8.52	159	47.412	417	25.86	64
20	58.567	281	12.85	188	21.87	43	47.95	267	29.140	294	6.93	145	47.829	396	25.22	24
30	58.848	257	10.97	181	22.30	38	50.62	302	29.434	270	5.48	127	48.225	364	24.98	$\overline{15}$
Juli 10	59.105	225	9.16	169	22.68	31	53.64	328	29.704	238	4.21	106	48.589	323	25.13	53
20	59.330	189	7.47	153	22.99	23	56.92	348	29.942	200	3.15	82	48.912	273	25.66	90
30	59.519	149	5.94	134	23.22	16	60.40	358	30.142	160	2.33	58	49.185	217	26.56	123
Aug. 9	59.668	106	4.60	113	23.38	8	63.98	362	30.302	115	1.75	34	49.402	156	27.79	151
19	59.774	62	3.47	92	23.46	0	67.60	358	30.417	69	1.41	11	49.558	92	29.30	174
28	$_{22}$59.836	$\underline{20}$	2.55	69	$_{22}$23.46	8	71.18	345	$_{22}$30.486	$\underline{25}$	1.30	$\overline{11}$	$_{23}$49.650	$\underline{29}$	31.04	189
Sept. 7	59.856	19	1.86	47	23.38	15	74.63	325	30.511	16	1.41	30	49.679	31	32.93	197
17	59.837	55	1.39	25	23.23	21	77.88	300	30.495	54	1.71	45	49.648	87	34.90	197
27	59.782	85	1.14	7	23.02	28	80.88	268	30.441	85	2.16	58	49.561	135	36.87	187
Okt. 7	59.697	107	1.07	$\overline{11}$	22.74	33	83.56	228	30.356	109	2.74	66	49.426	173	38.74	171
17	59.590	123	1.18	27	22.41	37	85.84	183	30.247	126	3.40	70	49.253	202	40.45	147
27	59.467	131	1.45	41	22.04	39	87.67	135	30.121	135	4.10	71	49.051	217	41.92	116
Nov. 6	59.336	132	1.86	53	21.65	42	89.02	81	29.986	136	4.81	70	48.834	222	43.08	81
16	59.204	126	2.39	63	21.23	42	89.83	24	29.850	130	5.51	65	48.612	216	43.89	42
26	59.078	116	3.02	71	20.81	41	90.07	$\overline{34}$	29.720	118	6.16	58	48.396	200	44.31	2
Dez. 6	58.962	100	3.73	78	20.40	39	89.73	91	29.602	101	6.74	50	48.196	175	44.33	$\overline{38}$
16	58.862	81	4.51	82	20.01	37	88.82	147	29.501	80	7.24	41	48.021	143	43.95	78
26	58.781	59	5.33	84	19.64	32	87.35	198	29.421	57	7.65	30	47.878	107	43.17	115
36	58.722		6.17		19.32		85.37		29.364		7.95		47.771		42.02	
Mittl. Ort	57.541		16.03		20.04		60.88		28.105		14.33		46.550		41.56	
sec δ, tg δ	1.000		−0.010		2.167		+1.922		1.031		−0.252		1.473		−1.081	
a, *a′*	+3.1		+17.5		+1.8		+17.5		+3.2		+17.5		+3.8		+17.6	
b, *b′*	0.00		+ 0.49		+0.11		+ 0.49		−0.01		+ 0.49		−0.06		+ 0.48	

Tag	834) ϑ Pegasi				835) π Pegasi				837) 24 Cephei				836) ζ Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	22h 7m		+5° 55′		22h 7m		+32° 54′		22h 8m		+72° 3′		22h 8m		+57° 55′	
	s		″		s		″		s		″		s		″	
Jan. 1	23.692	55	32.02	111	30.765	102	31.17	194	42.78	50	83.40	216	54.620	243	55.64	222
11	23.637	29	30.91	112	30.663	72	29.23	215	42.28	42	81.24	260	54.377	193	53.42	260
21	23.608	3	29.79	108	30.591	39	27.08	229	41.86	31	78.64	295	54.184	137	50.82	288
31	23.605	26	28.71	100	30.552	3	24.79	234	41.55	20	75.69	318	54.047	72	47.94	304
Febr. 10	23.631	56	27.71	85	30.549	37	22.45	227	41.35	6	72.51	328	53.975	3	44.90	309
20	23.687	88	26.86	67	30.586	78	20.18	212	41.29	6	69.23	325	53.972	69	41.81	302
März 2	23.775	120	26.19	43	30.664	120	18.06	188	41.35	20	65.98	310	54.041	141	38.79	281
12	23.895	154	25.76	14	30.784	162	16.18	155	41.55	32	62.88	282	54.182	212	35.98	250
22	24.049	187	25.62	16	30.946	203	14.63	115	41.87	43	60.06	243	54.394	278	33.48	210
Apr. 1	24.236	218	25.78	47	31.149	241	13.48	71	42.30	54	57.63	196	54.672	338	31.38	161
11	24.454	246	26.25	79	31.390	274	12.77	23	42.84	62	55.67	142	55.010	389	29.77	107
21	24.700	271	27.04	110	31.664	302	12.54	27	43.46	68	54.25	83	55.399	429	28.70	48
Mai 1	24.971	291	28.14	138	31.966	323	12.81	75	44.14	73	53.42	22	55.828	456	28.22	11
11	25.262	304	29.52	162	32.289	335	13.56	122	44.87	74	53.20	40	56.284	471	28.33	70
21	25.566	310	31.14	181	32.624	340	14.78	164	45.61	74	53.60	99	56.755	472	29.03	126
31	25.876	308	32.95	196	32.964	335	16.42	201	46.35	71	54.59	155	57.227	458	30.29	178
Juni 10	26.184	299	34.91	204	33.299	321	18.43	234	47.06	66	56.14	207	57.685	434	32.07	225
20	26.483	281	36.95	208	33.620	299	20.77	258	47.72	59	58.21	252	58.119	396	34.32	265
30	26.764	258	39.03	204	33.919	268	23.35	276	48.31	52	60.73	291	58.515	349	36.97	299
Juli 10	27.022	226	41.07	198	34.187	232	26.11	288	48.83	42	63.64	322	58.864	293	39.96	324
20	27.248	190	43.05	185	34.419	190	28.99	292	49.25	32	66.86	346	59.157	230	43.20	342
30	27.438	149	44.90	170	34.609	144	31.91	290	49.57	21	70.32	362	59.387	162	46.62	352
Aug. 9	27.587	108	46.60	151	34.753	96	34.81	281	49.78	9	73.94	369	59.549	92	50.14	355
19	^{23}27.695	64	48.11	131	^{23}34.849	48	37.62	268	^{24}49.87	2	77.63	370	^{24}59.641	22	53.69	350
28	27.759	21	49.42	108	34.897	0	40.30	248	49.85	14	81.33	361	59.663	47	57.19	337
Sept. 7	27.780	18	50.50	84	34.897	43	42.78	225	49.71	24	84.94	347	59.616	111	60.56	317
17	27.762	53	51.34	62	34.854	82	45.03	197	49.47	34	88.41	323	59.505	171	63.73	292
27	27.709	82	51.96	39	34.772	117	47.00	166	49.13	43	91.64	293	59.334	223	66.65	259
Okt. 7	27.627	106	52.35	17	34.655	143	48.66	131	48.70	51	94.57	257	59.111	267	69.24	221
17	27.521	122	52.52	4	34.512	163	49.97	95	48.19	58	97.14	213	58.844	302	71.45	177
27	27.399	131	52.48	23	34.349	175	50.92	55	47.61	63	99.27	165	58.542	328	73.22	130
Nov. 6	27.268	133	52.25	42	34.174	181	51.47	14	46.98	65	100.92	110	58.214	342	74.52	77
16	27.135	129	51.83	59	33.993	179	51.61	26	46.33	68	102.02	53	57.872	348	75.29	22
26	27.006	119	51.24	73	33.814	171	51.35	67	45.65	68	102.55	8	57.524	343	75.51	34
Dez. 6	26.887	104	50.51	87	33.643	158	50.68	107	44.97	65	102.47	68	57.181	328	75.17	90
16	26.783	87	49.64	98	33.485	139	49.61	144	44.32	61	101.79	127	56.853	302	74.27	144
26	26.696	66	48.66	106	33.346	116	48.17	175	43.71	56	100.52	184	56.551	268	72.83	193
36	26.630		47.60		33.230		46.42		43.15		98.68		56.283		70.90	
Mittl. Ort	25.465		35.84		32.476		27.69		45.23		72.52		56.525		46.78	
sec δ, tg δ	1.005		+0.104		1.191		+0.647		3.248		+3.091		1.883		+1.596	
a, *a′*	+3.0		+17.7		+2.7		+17.7		+1.1		+17.7		+2.1		+17.7	
b, *b′*	+0.01		+ 0.47		+0.04		+ 0.47		+0.18		+ 0.47		+0.09		+ 0.47	

Tag	840) ϑ Aquarii				841) α Tucanae				842) γ Aquarii				844) β Lacertae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	22h 13m		−8° 3′		22h 14m		−60° 31′		22h 18m		−1° 39′		22h 21m		+51° 56′	
Jan. 1	s 54.095	52	″ 36.32	52	s 41.84	17	″ 83.68	187	s 47.163	58	″ 60.75	78	s 21.785	203	″ 78.66	207
11	54.043	27	36.84	42	41.67	11	81.81	223	47.105	33	61.53	73	21.582	163	76.59	244
21	54.016	1	37.26	30	41.56	4	79.58	255	47.072	9	62.26	65	21.419	118	74.15	270
31	54.015	27	37.56	16	41.52	2	77.03	278	47.063	19	62.91	53	21.301	66	71.45	287
Febr. 10	54.042	56	37.72	1	41.54	8	74.25	295	47.082	49	63.44	37	21.235	9	68.58	292
20	54.098	87	37.71	20	41.62	14	71.30	306	47.131	79	63.81	19	21.226	51	65.66	284
März 2	54.185	120	37.51	42	41.76	21	68.24	310	47.210	112	64.00	4	21.277	113	62.82	267
12	54.305	152	37.09	64	41.97	28	65.14	306	47.322	144	63.96	29	21.390	174	60.15	237
22	54.457	185	36.45	88	42.25	33	62.08	298	47.466	178	63.67	56	21.564	233	57.78	198
Apr. 1	54.642	216	35.57	110	42.58	39	59.10	282	47.644	210	63.11	82	21.797	287	55.80	152
11	54.858	245	34.47	132	42.97	44	56.28	261	47.854	239	62.29	109	22.084	334	54.28	99
21	55.103	271	33.15	150	43.41	48	53.67	234	48.093	266	61.20	132	22.418	372	53.29	44
Mai 1	55.374	292	31.65	165	43.89	52	51.33	202	48.359	287	59.88	154	22.790	401	52.85	13
11	55.666	306	30.00	176	44.41	54	49.31	166	48.646	302	58.34	170	23.191	418	52.98	69
21	55.972	315	28.24	181	44.95	56	47.65	125	48.948	311	56.64	183	23.609	424	53.67	124
31	56.287	315	26.43	182	45.51	56	46.40	80	49.259	311	54.81	190	24.033	417	54.91	173
Juni 10	56.602	307	24.61	178	46.07	54	45.60	36	49.570	304	52.91	193	24.450	399	56.64	219
20	56.909	292	22.83	170	46.61	52	45.24	11	49.874	289	50.98	188	24.849	371	58.83	257
30	57.201	269	21.13	155	47.13	48	45.35	58	50.163	267	49.10	180	25.220	332	61.40	289
Juli 10	57.470	239	19.58	138	47.61	43	45.93	101	50.430	238	47.30	168	25.552	285	64.29	313
20	57.709	203	18.20	118	48.04	36	46.94	142	50.668	203	45.62	151	25.837	232	67.42	331
30	57.912	164	17.02	96	48.40	29	48.36	178	50.871	163	44.11	132	26.069	174	70.73	339
Aug. 9	58.076	121	16.06	72	48.69	22	50.14	208	51.034	122	42.79	111	26.243	114	74.12	342
19	58.197	77	15.34	49	48.91	12	52.22	230	51.156	79	41.68	88	26.357	52	77.54	337
28	(25) 58.274	33	14.85	27	(25) 49.03	4	54.52	244	(26) 51.235	36	40.80	65	(27) 26.409	8	80.91	324
Sept. 7	58.307	7	14.58	5	49.07	4	56.96	249	51.271	4	40.15	43	26.401	65	84.15	306
17	58.300	43	14.53	14	49.03	12	59.45	243	51.267	41	39.72	21	26.336	118	87.21	280
27	58.257	75	14.67	29	48.91	19	61.88	228	51.226	71	39.51	3	26.218	165	90.01	249
Okt. 7	58.182	100	14.96	43	48.72	25	64.16	203	51.155	95	39.48	15	26.053	203	92.50	213
17	58.082	117	15.39	53	48.47	29	66.19	171	51.060	113	39.63	30	25.850	236	94.63	172
27	57.965	127	15.92	59	48.18	32	67.90	130	50.947	124	39.93	43	25.614	259	96.35	126
Nov. 6	57.838	130	16.51	64	47.86	34	69.20	84	50.823	127	40.36	54	25.355	273	97.61	77
16	57.708	126	17.15	66	47.52	33	70.04	34	50.696	125	40.90	63	25.082	280	98.38	25
26	57.582	116	17.81	66	47.19	32	70.38	17	50.571	117	41.53	69	24.802	277	98.63	29
Dez. 6	57.466	102	18.47	64	46.87	28	70.21	68	50.454	104	42.22	74	24.525	267	98.34	82
16	57.364	84	19.11	60	46.59	25	69.53	117	50.350	87	42.96	77	24.258	247	97.52	132
26	57.280	63	19.71	54	46.34	20	68.36	163	50.263	67	43.73	77	24.011	221	96.20	179
36	57.217		20.25		46.14		66.73		50.196		44.50		23.790		94.41	
Mittl. Ort	55.938		28.38		45.14		64.47		48.930		54.49		23.521		70.70	
sec δ, tg δ	1.010		−0.142		2.033		−1.770		1.000		−0.029		1.623		+1.278	
a, a′	+3.2		+17.9		+4.1		+18.0		+3.1		+18.1		+2.4		+18.2	
b, b′	−0.01		+ 0.45		−0.11		+ 0.44		0.00		+ 0.43		+0.08		+ 0.42	

Tag	848) α Lacertae				850) η Aquarii				851) 31 Cephei				852) 10 Lacertae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	22h 28m		+49° 59′		22h 32m		—0° 23′		22h 34m		+73° 21′		22h 36m		+38° 45′	
	s		"		s		"		s		"		s		"	
Jan. 1	59.531	194	65.07	198	30.107	67	71.76	80	22.34	60	38.56	183	45.746	141	53.73	180
11	59.337	159	63.09	234	30.040	46	72.56	77	21.74	51	36.73	232	45.605	115	51.93	209
21	59.178	117	60.75	260	29.994	21	73.33	69	21.23	41	34.41	272	45.490	83	49.84	229
31	59.061	69	58.15	278	29.973	6	74.02	58	20.82	29	31.69	302	45.407	46	47.55	241
Febr. 10	58.992	15	55.37	283	29.979	33	74.60	43	20.53	16	28.67	319	45.361	5	45.14	244
20	58.977	42	52.54	278	30.012	65	75.03	24	20.37	2	25.48	324	45.356	40	42.70	234
März 2	59.019	100	49.76	260	30.077	97	75.27	2	20.35	12	22.24	316	45.396	87	40.36	216
12	59.119	159	47.16	232	30.174	131	75.29	23	20.47	26	19.08	295	45.483	134	38.20	188
22	59.278	217	44.84	194	30.305	165	75.06	50	20.73	39	16.13	263	45.617	182	36.32	152
Apr. 1	59.495	270	42.90	149	30.470	199	74.56	77	21.12	52	13.50	220	45.799	227	34.80	110
11	59.765	316	41.41	99	30.669	230	73.79	105	21.64	61	11.30	170	46.026	267	33.70	62
21	60.081	356	40.42	44	30.899	258	72.74	129	22.25	70	9.60	115	46.293	303	33.08	13
Mai 1	60.437	386	39.98	12	31.157	281	71.45	152	22.95	75	8.45	56	46.596	330	32.95	38
11	60.823	404	40.10	67	31.438	299	69.93	170	23.70	79	7.89	4	46.926	349	33.33	88
21	61.227	412	40.77	120	31.737	309	68.23	183	24.49	79	7.93	65	47.275	359	34.21	135
31	61.639	408	41.97	169	32.046	312	66.40	193	25.28	79	8.58	123	47.634	359	35.56	177
Juni 10	62.047	393	43.66	214	32.358	308	64.47	196	26.07	74	9.81	177	47.993	349	37.33	215
20	62.440	367	45.80	253	32.666	294	62.51	195	26.81	69	11.58	225	48.342	331	39.48	246
30	62.807	332	48.33	284	32.960	273	60.56	187	27.50	61	13.83	268	48.673	303	41.94	272
Juli 10	63.139	289	51.17	308	33.233	246	58.69	175	28.11	52	16.51	304	48.976	267	44.66	290
20	63.428	239	54.25	325	33.479	213	56.94	160	28.63	41	19.55	333	49.243	227	47.56	301
30	63.667	183	57.50	335	33.692	175	55.34	142	29.04	31	22.88	354	49.470	181	50.57	306
Aug. 9	63.850	125	60.85	338	33.867	134	53.92	120	29.35	18	26.42	367	49.651	131	53.63	304
19	63.975	67	64.23	332	34.001	91	52.72	97	29.53	7	30.09	373	49.782	82	56.67	295
29	64.042	9	67.55	321	34.092	49	51.75	75	29.60	6	33.82	371	49.864	32	59.62	281
Sept. 7	[19] 64.051	47	70.76	303	[30] 34.141	9	51.00	52	[30] 29.54	17	37.53	361	[31] 49.896	15	62.43	262
17	64.004	98	73.79	278	34.150	28	50.48	29	29.37	28	41.14	344	49.881	58	65.05	236
27	63.906	143	76.57	248	34.122	60	50.19	10	29.09	38	44.58	318	49.823	97	67.41	208
Okt. 7	63.763	182	79.05	213	34.062	85	50.09	9	28.71	48	47.76	286	49.726	129	69.49	175
17	63.581	214	81.18	173	33.977	105	50.18	25	28.23	55	50.62	247	49.597	156	71.24	138
27	63.367	237	82.91	129	33.872	117	50.43	39	27.68	62	53.09	201	49.441	174	72.62	98
Nov. 6	63.130	252	84.20	81	33.755	123	50.82	51	27.06	68	55.10	149	49.267	186	73.60	56
16	62.878	260	85.01	30	33.632	123	51.33	61	26.38	70	56.59	93	49.081	192	74.16	12
26	62.618	259	85.31	22	33.509	117	51.94	69	25.68	72	57.52	34	48.889	192	74.28	32
Dez. 6	62.359	250	85.09	74	33.392	107	52.63	74	24.96	72	57.86	28	48.697	184	73.96	76
16	62.109	235	84.35	124	33.285	93	53.37	78	24.24	68	57.58	88	48.513	172	73.20	119
26	61.874	211	83.11	170	33.192	76	54.15	79	23.56	64	56.70	147	48.341	153	72.01	156
36	61.663		81.41		33.116		54.94		22.92		55.23		48.188		70.45	
Mittl. Ort	61.202		57.40		31.797		65.52		24.56		26.94		47.319		48.63	
sec δ, tg δ	1.556		+1.192		1.000		—0.007		3.492		+3.345		1.283		+0.803	
a, *a′*	+2.5		+18.5		+3.1		+18.6		+1.4		+18.7		+2.7		+18.7	
b, *b′*	+0.07		+ 0.39		0.00		+ 0.37		+0.21		+ 0.36		+0.05		+ 0.36	

Tag	855) ζ Pegasi				856) β Gruis				857) η Pegasi				859) λ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$22^h\ 38^m$		$+10°\ 32'$		$22^h\ 39^m$		$-47°\ 10'$		$22^h\ 40^m$		$+29°\ 55'$		$22^h\ 43^m$		$+23°\ 16'$	
	s		″		s		″		s		″		s		″	
Jan. 1	41.438	79	34.44	115	21.155	124	40.83	114	23.659	115	61.97	163	51.181	101	33.46	147
11	41.359	58	33.29	121	21.031	89	39.69	150	23.544	92	60.34	185	51.080	80	31.99	163
21	41.301	34	32.08	122	20.942	50	38.19	182	23.452	64	58.49	200	51.000	55	30.36	174
31	41.267	8	30.86	116	20.892	9	36.37	210	23.388	32	56.49	207	50.945	26	28.62	177
Febr. 10	41.259	$\overline{22}$	29.70	106	20.883	$\overline{35}$	34.27	234	23.356	$\overline{3}$	54.42	205	50.919	$\overline{6}$	26.85	172
20	41.281	53	28.64	90	20.918	81	31.93	251	23.359	41	52.37	194	50.925	42	25.13	160
März 2	41.334	88	27.74	67	20.999	126	29.42	265	23.400	83	50.43	174	50.967	80	23.53	139
12	41.422	123	27.07	40	21.125	173	26.77	272	23.483	125	48.69	146	51.047	119	22.14	112
22	41.545	159	26.67	10	21.298	219	24.05	276	23.608	167	47.23	112	51.166	159	21.02	79
Apr. 1	41.704	195	26.57	$\overline{24}$	21.517	264	21.29	272	23.775	208	46.11	72	51.325	198	20.23	41
11	41.899	227	26.81	57	21.781	307	18.57	263	23.983	245	45.39	28	51.523	233	19.82	0
21	42.126	256	27.38	91	22.088	345	15.94	250	24.228	278	45.11	$\overline{18}$	51.756	265	19.82	41
Mai 1	42.382	281	28.29	122	22.433	378	13.44	229	24.506	305	45.29	63	52.021	291	20.23	82
11	42.663	299	29.51	151	22.811	403	11.15	205	24.811	323	45.92	106	52.312	311	21.05	121
21	42.962	310	31.02	175	23.214	420	9.10	174	25.134	335	46.98	148	52.623	322	22.26	156
31	43.272	313	32.77	194	23.634	427	7.36	140	25.469	336	48.46	184	52.945	325	23.82	188
Juni 10	43.585	309	34.71	209	24.061	424	5.96	101	25.805	329	50.30	215	53.270	320	25.70	213
20	43.894	295	36.80	217	24.485	411	4.95	62	26.134	313	52.45	240	53.590	305	27.83	234
30	44.189	275	38.97	219	24.896	386	4.33	19	26.447	290	54.85	259	53.895	284	30.17	247
Juli 10	44.464	247	41.16	217	25.282	352	4.14	$\overline{23}$	26.737	258	57.44	271	54.179	255	32.64	254
20	44.711	214	43.33	209	25.634	308	4.37	64	26.995	221	60.15	277	54.434	220	35.18	256
30	44.925	176	45.42	197	25.942	257	5.01	102	27.216	179	62.92	277	54.654	181	37.74	252
Aug. 9	45.101	135	47.39	180	26.199	200	6.03	136	27.395	135	65.69	271	54.835	138	40.26	242
19	45.236	93	49.19	161	26.399	139	7.39	165	27.530	88	68.40	259	54.973	94	42.68	228
29	45.329	50	50.80	139	26.538	76	9.04	187	27.618	43	70.99	242	55.067	51	44.96	210
Sept. 7	[31] 45.379	11	52.19	117	[1] 26.614	14	10.91	202	[1] 27.661	$\overline{1}$	73.41	221	[1] 55.118	9	47.06	188
17	45.390	$\overline{26}$	53.36	92	26.628	$\overline{43}$	12.93	208	27.660	40	75.62	197	55.127	$\overline{30}$	48.94	163
27	45.364	58	54.28	69	26.585	95	15.01	205	27.620	76	77.59	168	55.097	64	50.57	137
Okt. 7	45.306	84	54.97	45	26.490	139	17.06	194	27.544	105	79.27	138	55.033	91	51.94	108
17	45.222	105	55.42	21	26.351	174	19.00	175	27.439	129	80.65	105	54.942	114	53.02	78
27	45.117	118	55.63	$\overline{2}$	26.177	198	20.75	147	27.310	145	81.70	69	54.828	130	53.80	47
Nov. 6	44.999	126	55.61	23	25.979	212	22.22	114	27.165	156	82.39	33	54.698	140	54.27	14
16	44.873	127	55.38	44	25.767	214	23.36	76	27.009	161	82.72	$\overline{5}$	54.558	143	54.41	$\overline{17}$
26	44.746	123	54.94	64	25.553	208	24.12	35	26.848	159	82.67	43	54.415	142	54.24	48
Dez. 6	44.623	115	54.30	80	25.345	193	24.47	$\overline{7}$	26.689	152	82.24	79	54.273	136	53.76	79
16	44.508	103	53.50	96	25.152	170	24.40	50	26.537	141	81.45	113	54.137	124	52.97	107
26	44.405	88	52.54	108	24.982	141	23.90	92	26.396	124	80.32	144	54.013	110	51.90	132
36	44.317		51.46		24.841		22.98		26.272		78.88		53.903		50.58	
Mittl. Ort	43.040		37.46		23.517		22.10		25.206		59.24		52.718		32.67	
sec δ, tg δ	1.017		+0.186		1.471		−1.079		1.154		+0.576		1.089		+0.430	
a, a′	+3.0		+18.8		+3.6		+18.8		+2.8		+18.8		+2.9		+18.9	
b, b′	+0.01		+ 0.35		−0.07		+ 0.34		+0.04		+ 0.34		+0.03		+ 0.33	

Tag		860) ε Gruis				863) ι Cephei				1599) 69 G. Gruis				864) λ Aquarii			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945		$22^h\ 45^m$		$-51°\ 36'$		$22^h\ 47^m$		$+65°\ 54'$		$22^h\ 47^m$		$-39°\ 26'$		$22^h\ 49^m$		$-7°\ 52'$	
		s		"		s		"		s		"		s		"	
Jan.	1	12.096	152	43.49	127	41.15	40	50.04	175	52.608	109	72.61	76	43.080	75	30.92	51
	11	11.944	112	42.22	167	40.75	35	48.29	222	52.499	79	71.85	109	43.005	56	31.43	40
	21	11.832	69	40.55	201	40.40	28	46.07	261	52.420	47	70.76	141	42.949	33	31.83	28
	31	11.763	25	38.54	231	40.12	20	43.46	290	52.373	13	69.35	168	42.916	9	32.11	12
Febr.	10	11.738	$\overline{23}$	36.23	255	39.92	12	40.56	308	52.360	$\overline{24}$	67.67	192	42.907	$\overline{20}$	32.23	$\overline{5}$
	20	11.761	74	33.68	273	39.80	3	37.48	313	52.384	62	65.75	212	42.927	50	32.18	25
März	2	11.835	124	30.95	286	39.77	$\overline{8}$	34.35	305	52.446	104	63.63	230	42.977	82	31.93	47
	12	11.959	175	28.09	293	39.85	17	31.30	285	52.550	145	61.33	242	43.059	116	31.46	70
	22	12.134	226	25.16	293	40.02	27	28.45	254	52.695	187	58.91	249	43.175	151	30.76	93
Apr.	1	12.360	275	22.23	288	40.29	35	25.91	213	52.882	229	56.42	253	43.326	186	29.83	116
	11	12.635	322	19.35	277	40.64	43	23.78	165	53.111	268	53.89	251	43.512	220	28.67	138
	21	12.957	365	16.58	261	41.07	49	22.13	111	53.379	304	51.38	244	43.732	250	27.29	157
Mai	1	13.322	401	13.97	237	41.56	55	21.02	52	53.683	335	48.94	231	43.982	276	25.72	173
	11	13.723	429	11.60	208	42.11	57	20.50	$\overline{6}$	54.018	360	46.63	213	44.258	296	23.99	185
	21	14.152	448	9.52	176	42.68	59	20.56	65	54.378	377	44.50	189	44.554	310	22.14	191
	31	14.600	458	7.76	138	43.27	59	21.21	122	54.755	385	42.61	162	44.864	317	20.23	193
Juni	10	15.058	457	6.38	97	43.86	57	22.43	174	55.140	384	40.99	129	45.181	314	18.30	190
	20	15.515	443	5.41	53	44.43	53	24.17	222	55.524	374	39.70	94	45.495	305	16.40	181
	30	15.958	418	4.88	9	44.96	48	26.39	264	55.898	353	38.76	57	45.800	287	14.59	168
Juli	10	16.376	383	4.79	$\overline{35}$	45.44	42	29.03	300	56.251	324	38.19	17	46.087	262	12.91	151
	20	16.759	337	5.14	79	45.86	35	32.03	327	56.575	286	38.02	$\overline{22}$	46.349	230	11.40	130
	30	17.096	283	5.93	119	46.21	27	35.30	347	56.861	240	38.24	59	46.579	194	10.10	107
Aug.	9	17.379	221	7.12	155	46.48	19	38.77	360	57.101	191	38.83	93	46.773	153	9.03	82
	19	17.600	155	8.67	184	46.67	11	42.37	366	57.292	137	39.76	124	46.926	111	8.21	57
	29	17.755	88	10.51	206	46.78	2	46.03	363	57.429	82	41.00	148	47.037	69	7.64	32
Sept.	7	[2] 17.843	21	12.57	221	[3] 46.80	$\overline{7}$	49.66	353	[3] 57.511	27	42.48	167	[3] 47.106	28	7.32	10
	17	17.864	$\overline{43}$	14.78	227	46.73	15	53.19	336	57.538	$\overline{23}$	44.15	178	47.134	$\overline{11}$	7.22	$\overline{12}$
	27	17.821	102	17.05	222	46.58	22	56.55	311	57.515	69	45.93	180	47.123	44	7.34	30
Okt.	7	17.719	151	19.27	210	46.36	28	59.66	280	57.446	108	47.73	176	47.079	72	7.64	45
	17	17.568	190	21.37	187	46.08	35	62.46	241	57.338	139	49.49	163	47.007	94	8.09	56
	27	17.378	220	23.24	157	45.73	39	64.87	197	57.199	161	51.12	144	46.913	109	8.65	63
Nov.	6	17.158	237	24.81	121	45.34	42	66.84	147	57.038	174	52.56	118	46.804	117	9.28	69
	16	16.921	243	26.02	79	44.92	46	68.31	93	56.864	177	53.74	87	46.687	120	9.97	70
	26	16.678	238	26.81	34	44.46	46	69.24	36	56.687	173	54.61	53	46.567	118	10.67	70
Dez.	6	16.440	222	27.15	$\overline{12}$	44.00	47	69.60	$\overline{24}$	56.514	161	55.14	17	46.449	109	11.37	67
	16	16.218	200	27.03	59	43.53	45	69.36	83	56.353	144	55.31	$\overline{20}$	46.340	98	12.04	61
	26	16.018	169	26.44	103	43.08	42	68.53	139	56.209	121	55.11	55	46.242	83	12.65	54
	36	15.849		25.41		42.66		67.14		56.088		54.56		46.159		13.19	
Mittl. Ort		14.559		23.63		42.91		39.16		54.691		55.04		44.733		21.94	
sec δ, tg δ		1.610		−1.262		2.450		+2.237		1.295		−0.823		1.010		−0.138	
a, a'		+3.6		+19.0		+2.1		+19.1		+3.4		+19.1		+3.1		+19.1	
b, b'		−0.08		+ 0.32		+0.14		+ 0.31		−0.05		+ 0.31		−0.01		+ 0.30	

Tag	865) ρ Indi AR.	Δ	865) ρ Indi Dekl.	Δ	866) δ Aquarii AR.	Δ	866) δ Aquarii Dekl.	Δ	867) α Piscis austr.[1] AR.	Δ	867) α Piscis austr.[1] Dekl.	Δ	869) ο Andromedae AR.	Δ	869) ο Andromedae Dekl.	Δ
1945	22h 50m		−70° 21′		22h 51m		−16° 6′		22h 54m		−29° 54′		22h 59m		+42° 1′	
	s		″		s		″		s		″		s		″	
Jan. 1	48.00	38	87.70	193	42.274	78	61.16	21	35.087	92	66.63	34	21.627	169	54.55	162
11	47.62	29	85.77	239	42.196	58	61.37	2	34.995	69	66.29	63	21.458	146	52.93	195
21	47.33	21	83.38	277	42.138	35	61.39	16	34.926	42	65.66	89	21.312	115	50.98	221
31	47.12	12	80.61	308	42.103	9	61.23	35	34.884	12	64.77	115	21.197	80	48.77	239
Febr. 10	47.00	2	77.53	331	42.094	19	60.88	55	34.872	19	63.62	139	21.117	38	46.38	246
20	46.98	7	74.22	346	42.113	51	60.33	77	34.891	53	62.23	160	21.079	8	43.92	243
März 2	47.05	17	70.76	352	42.164	83	59.56	97	34.944	90	60.63	180	21.087	58	41.49	229
12	47.22	27	67.24	352	42.247	118	58.59	118	35.034	127	58.83	196	21.145	109	39.20	206
22	47.49	36	63.72	344	42.365	154	57.41	139	35.161	166	56.87	209	21.254	161	37.14	174
Apr. 1	47.85	44	60.28	328	42.519	189	56.02	157	35.327	204	54.78	220	21.415	211	35.40	135
11	48.29	53	57.00	305	42.708	223	54.45	172	35.531	241	52.58	225	21.626	258	34.05	90
21	48.82	60	53.95	276	42.931	255	52.73	185	35.772	274	50.33	226	21.884	298	33.15	40
Mai 1	49.42	66	51.19	242	43.186	281	50.88	194	36.046	304	48.07	221	22.182	331	32.75	10
11	50.08	71	48.77	201	43.467	303	48.94	197	36.350	327	45.86	213	22.513	355	32.85	60
21	50.79	75	46.76	156	43.770	318	46.97	196	36.677	344	43.73	198	22.868	370	33.45	109
31	51.54	76	45.20	107	44.088	324	45.01	190	37.021	353	41.75	179	23.238	376	34.54	155
Juni 10	52.30	76	44.13	57	44.412	324	43.11	178	37.374	352	39.96	154	23.614	369	36.09	196
20	53.06	74	43.56	4	44.736	314	41.33	162	37.726	343	38.42	126	23.983	354	38.05	231
30	53.80	70	43.52	48	45.050	297	39.71	142	38.069	325	37.16	94	24.337	330	40.36	260
Juli 10	54.50	65	44.00	98	45.347	272	38.29	119	38.394	298	36.22	61	24.667	296	42.96	284
20	55.15	56	44.98	146	45.619	240	37.10	92	38.692	265	35.61	27	24.963	257	45.80	299
30	55.71	48	46.44	188	45.859	203	36.18	64	38.957	225	35.34	8	25.220	212	48.79	309
Aug. 9	56.19	37	48.32	225	46.062	161	35.54	36	39.182	179	35.42	42	25.432	163	51.88	312
19	56.56	25	50.57	254	46.223	118	35.18	9	39.361	131	35.84	71	25.595	112	55.00	307
29	56.81	14	53.11	273	46.341	74	35.09	17	39.492	83	36.55	97	25.707	61	58.07	297
Sept. 7	[3] 56.95	1	55.84	282	[4] 46.415	31	35.26	40	[4] 39.575	35	37.52	119	[6] 25.768	13	61.04	281
17	56.96	11	58.66	281	46.446	9	35.66	59	39.610	10	38.71	134	25.781	34	63.85	260
27	56.85	22	61.47	268	46.437	44	36.25	74	39.600	51	40.05	143	25.747	75	66.45	233
Okt. 7	56.63	32	64.15	244	46.393	74	36.99	83	39.549	85	41.48	145	25.672	112	68.78	203
17	56.31	40	66.59	211	46.319	97	37.82	90	39.464	113	42.93	139	25.560	143	70.81	167
27	55.91	46	68.70	169	46.222	113	38.72	90	39.351	131	44.32	129	25.417	166	72.48	129
Nov. 6	55.45	51	70.39	119	46.109	123	39.62	87	39.220	143	45.61	112	25.251	184	73.77	87
16	54.94	53	71.58	64	45.986	125	40.49	80	39.077	147	46.73	91	25.067	196	74.64	42
26	54.41	52	72.22	7	45.861	123	41.29	71	38.930	144	47.64	67	24.871	200	75.06	3
Dez. 6	53.89	51	72.29	52	45.738	115	42.00	58	38.786	135	48.31	39	24.671	200	75.03	49
16	53.38	46	71.77	110	45.623	102	42.58	44	38.651	120	48.70	10	24.471	191	74.54	94
26	52.92	41	70.67	164	45.521	86	43.02	29	38.531	103	48.80	18	24.280	178	73.60	136
36	52.51		69.03		45.435		43.31		38.428		48.62		24.102		72.24	
Mittl. Ort	51.78		65.10		43.987		49.62		36.956		51.07		23.079		48.52	
sec δ, tg δ	2.976		−2.803		1.041		−0.289		1.154		−0.575		1.346		+0.901	
a, *a*′	+4.2		+19.1		+3.2		+19.2		+3.3		+19.2		+2.8		+19.3	
b, *b*′	−0.18		+ 0.30		−0.02		+ 0.29		−0.04		+ 0.28		+0.06		+ 0.26	

[1]) Die jährliche Parallaxe (0″.135) ist bereits berücksichtigt.

Tag	870) β Pegasi AR.		870) β Pegasi Dekl.		871) α Pegasi AR.		871) α Pegasi Dekl.		873) 88 Aquarii AR.		873) 88 Aquarii Dekl.		875) Br 3077 Cass¹) AR.		875) Br 3077 Cass¹) Dekl.	
1945	23h 1m		+27° 46′		23h 1m		+14° 54′		23h 6m		−21° 28′		23h 10m		+56° 51′	
	s		″		s		″		s		″		s		″	
Jan. 1	4.791	120	64.93	143	59.654	96	30.34	117	29.312	91	30.14	3	35.962	275	61.49	152
11	4.671	101	63.50	165	59.558	80	29.17	128	29.221	72	30.17	19	35.687	243	59.97	197
21	4.570	77	61.85	180	59.478	58	27.89	132	29.149	49	29.98	43	35.444	203	58.00	235
31	4.493	49	60.05	188	59.420	33	26.57	131	29.100	24	29.55	65	35.241	152	55.65	263
Febr. 10	4.444	16	58.17	187	59.387	4	25.26	124	29.076	4	28.90	88	35.089	94	53.02	280
20	4.428	20	56.30	179	59.383	27	24.02	111	29.080	35	28.02	111	34.995	28	50.22	286
März 2	4.448	60	54.51	162	59.410	63	22.91	90	29.115	69	26.91	132	34.967	43	47.36	280
12	4.508	103	52.89	136	59.473	100	22.01	65	29.184	105	25.59	152	35.010	115	44.56	263
22	4.611	145	51.53	105	59.573	138	21.36	36	29.289	143	24.07	171	35.125	187	41.93	235
Apr. 1	4.756	186	50.48	68	59.711	176	21.00	3	29.432	179	22.36	186	35.312	257	39.58	197
11	4.942	226	49.80	28	59.887	212	20.97	33	29.611	216	20.50	200	35.569	320	37.61	152
21	5.168	262	49.52	16	60.099	246	21.30	68	29.827	250	18.50	208	35.889	375	36.09	101
Mai 1	5.430	291	49.68	59	60.345	273	21.98	103	30.077	280	16.42	212	36.264	420	35.08	47
11	5.721	314	50.27	100	60.618	295	23.01	135	30.357	304	14.30	211	36.684	453	34.61	9
21	6.035	329	51.27	139	60.913	310	24.36	163	30.661	321	12.19	206	37.137	472	34.70	65
31	6.364	334	52.66	175	61.223	317	25.99	187	30.982	332	10.13	195	37.609	479	35.35	118
Juni 10	6.698	331	54.41	205	61.540	316	27.86	207	31.314	333	8.18	178	38.088	471	36.53	168
20	7.029	320	56.46	230	61.856	306	29.93	219	31.647	327	6.40	157	38.559	452	38.21	214
30	7.349	300	58.76	248	62.162	288	32.12	227	31.974	311	4.83	133	39.011	421	40.35	253
Juli 10	7.649	272	61.24	260	62.450	263	34.39	229	32.285	289	3.50	104	39.432	380	42.88	286
20	7.921	239	63.84	267	62.713	232	36.68	225	32.574	258	2.46	74	39.812	329	45.74	313
30	8.160	199	66.51	267	62.945	196	38.93	217	32.832	221	1.72	43	40.141	272	48.87	332
Aug. 9	8.359	157	69.18	261	63.141	157	41.10	203	33.053	180	1.29	11	40.413	210	52.19	344
19	8.516	113	71.79	250	63.298	115	43.13	187	33.233	137	1.18	18	40.623	147	55.63	349
29	8.629	69	74.29	235	63.413	73	45.00	167	33.370	92	1.36	46	40.770	81	59.12	346
Sept. 7*)	6 8.698	26	76.64	215	6 63.486	33	46.67	145	7 33.462	47	1.82	70	40.851	17	62.58	336
17	8.724	14	78.79	193	63.519	5	48.12	122	33.509	5	2.52	89	8 40.868	44	65.94	320
27	8.710	50	80.72	166	63.514	39	49.34	97	33.514	33	3.41	104	40.824	101	69.14	297
Okt. 7	8.660	81	82.38	137	63.475	66	50.31	72	33.481	64	4.45	111	40.723	151	72.11	268
17	8.579	105	83.75	107	63.409	90	51.03	46	33.417	91	5.56	115	40.572	197	74.79	233
27	8.474	125	84.82	74	63.319	107	51.49	22	33.326	110	6.71	111	40.375	234	77.12	192
Nov. 6	8.349	139	85.56	40	63.212	118	51.71	3	33.216	122	7.82	104	40.141	265	79.04	146
16	8.210	146	85.96	5	63.094	124	51.68	27	33.094	128	8.86	92	39.876	286	80.50	95
26	8.064	148	86.01	29	62.970	126	51.41	50	32.966	128	9.78	76	39.590	301	81.45	43
Dez. 6	7.916	146	85.72	64	62.844	121	50.91	72	32.838	123	10.54	58	39.289	305	81.88	12
16	7.770	139	85.08	95	62.723	114	50.19	90	32.715	112	11.12	37	38.984	300	81.76	66
26	7.631	127	84.13	125	62.609	103	49.29	107	32.603	98	11.49	15	38.684	287	81.10	119
36	7.504		82.88		62.506		48.22		32.505		11.64		38.397		79.91	
Mittl. Ort	6.232		62.88		61.121		32.30		30.988		16.50		37.415		52.04	
sec δ, tg δ	1.130		+0.527		1.035		+0.266		1.075		−0.393		1.829		+1.532	
a, a′	+2.9		+19.4		+3.0		+19.4		+3.2		+19.5		+2.6		+19.6	
b, b′	+0.03		+ 0.25		+0.02		+ 0.25		−0.03		+ 0.23		+0.10		+ 0.21	

¹) Die jährliche Parallaxe (0″.146) ist bereits berücksichtigt.

*) Bei Stern 875) lies Sept. 8.

Scheinbare Sternörter 1945

Tag		877) γ Tucanae AR.	Diff.	877) γ Tucanae Dekl.	Diff.	878) γ Piscium AR.	Diff.	878) γ Piscium Dekl.	Diff.	879) γ Sculptoris AR.	Diff.	879) γ Sculptoris Dekl.	Diff.	880) τ Pegasi AR.	Diff.	880) τ Pegasi Dekl.	Diff.
1945		$23^h\ 14^m$		$-58°\ 31'$		$23^h\ 14^m$		$+2°\ 58'$		$23^h\ 15^m$		$-32°\ 49'$		$23^h\ 17^m$		$+23°\ 26'$	
		s		″		s		″		s		″		s		″	
Jan.	1	11.514	234	97.40	129	17.329	90	47.37	83	49.760	114	71.85	34	53.295	118	21.26	125
	11	11.280	194	96.11	176	17.239	74	46.54	82	49.646	94	71.51	66	53.177	103	20.01	144
	21	11.086	148	94.35	217	17.165	56	45.72	76	49.552	68	70.85	97	53.074	83	18.57	156
	31	10.938	97	92.18	252	17.109	34	44.96	68	49.484	41	69.88	126	52.991	57	17.01	163
Febr.	10	10.841	42	89.66	281	17.075	7	44.28	56	49.443	9	68.62	153	52.934	28	15.38	161
	20	10.799	16	86.85	303	17.068	22	43.72	38	49.434	24	67.09	177	52.906	5	13.77	153
März	2	10.815	77	83.82	319	17.090	54	43.34	17	49.458	62	65.32	198	52.911	43	12.24	137
	12	10.892	139	80.63	328	17.144	90	43.17	6	49.520	101	63.34	216	52.954	83	10.87	114
	22	11.031	202	77.35	329	17.234	127	43.23	33	49.621	142	61.18	230	53.037	125	9.73	85
Apr.	1	11.233	264	74.06	325	17.361	164	43.56	61	49.763	183	58.88	241	53.162	167	8.88	51
	11	11.497	322	70.81	313	17.525	200	44.17	90	49.946	223	56.47	246	53.329	207	8.37	13
	21	11.819	377	67.68	294	17.725	233	45.07	116	50.169	261	54.01	246	53.536	243	8.24	26
Mai	1	12.196	426	64.74	270	17.958	262	46.23	142	50.430	294	51.55	242	53.779	275	8.50	66
	11	12.622	466	62.04	238	18.220	286	47.65	164	50.724	322	49.13	231	54.054	300	9.16	104
	21	13.088	497	59.66	202	18.506	304	49.29	182	51.046	343	46.82	215	54.354	317	10.20	140
	31	13.585	516	57.64	161	18.810	313	51.11	194	51.389	357	44.67	193	54.671	327	11.60	171
Juni	10	14.101	523	56.03	116	19.123	314	53.05	203	51.746	360	42.74	167	54.998	328	13.31	198
	20	14.624	516	54.87	68	19.437	308	55.08	204	52.106	355	41.07	137	55.326	319	15.29	220
	30	15.140	497	54.19	18	19.745	293	57.12	202	52.461	342	39.70	102	55.645	302	17.49	236
Juli	10	15.637	464	54.01	32	20.038	271	59.14	194	52.803	319	38.68	66	55.947	279	19.85	246
	20	16.101	418	54.33	80	20.309	242	61.08	181	53.122	287	38.02	29	56.226	248	22.31	250
	30	16.519	362	55.13	125	20.551	209	62.89	165	53.409	249	37.73	10	56.474	213	24.81	248
Aug.	9	16.881	296	56.38	167	20.760	172	64.54	145	53.658	206	37.83	46	56.687	173	27.29	241
	19	17.177	222	58.05	201	20.932	131	65.99	124	53.864	158	38.29	79	56.860	131	29.70	230
	29	17.399	145	60.06	229	21.063	90	67.23	100	54.022	109	39.08	108	56.991	88	32.00	214
Sept.	8	9 17.544	66	62.35	247	9 21.153	51	68.23	76	10 54.131	60	40.16	133	10 57.079	47	34.14	194
	17	17.610	11	64.82	256	21.204	13	68.99	54	54.191	12	41.49	150	57.126	8	36.08	172
	27	17.599	84	67.38	255	21.217	21	69.53	31	54.203	31	42.99	161	57.134	28	37.80	148
Okt.	7	17.515	149	69.93	243	21.196	49	69.84	11	54.172	68	44.60	164	57.106	58	39.28	121
	17	17.366	205	72.36	222	21.147	74	69.95	8	54.104	100	46.24	160	57.048	85	40.49	93
	27	17.161	249	74.58	190	21.073	91	69.87	25	54.004	124	47.84	149	56.963	104	41.42	63
Nov.	6	16.912	281	76.48	151	20.982	103	69.62	39	53.880	140	49.33	130	56.859	120	42.05	34
	16	16.631	299	77.99	106	20.879	111	69.23	52	53.740	149	50.63	108	56.739	130	42.39	3
	26	16.332	304	79.05	56	20.768	113	68.71	62	53.591	151	51.71	81	56.609	134	42.42	27
Dez.	6	16.028	297	79.61	4	20.655	110	68.09	70	53.440	146	52.52	50	56.475	135	42.15	56
	16	15.731	279	79.65	50	20.545	104	67.39	77	53.294	136	53.02	17	56.340	131	41.59	84
	26	15.452	252	79.15	101	20.441	94	66.62	80	53.158	123	53.19	15	56.209	123	40.75	109
	36	15.200		78.14		20.347		65.82		53.035		53.04		56.086		39.66	
Mittl. Ort		13.940		74.90		18.781		53.42		51.507		54.70		54.655		20.65	
sec δ, tg δ		1.916		−1.634		1.001		+0.052		1.190		−0.645		1.090		+0.434	
a, a′		+3.5		+19.6		+3.1		+19.6		+3.2		+19.7		+3.0		+19.7	
b, b′		−0.11		+ 0.20		0.00		+ 0.20		−0.04		+ 0.19		+0.03		+ 0.18	

Tag	882) 4 Cassiopeiae AR.		Dekl.		884) κ Piscium AR.		Dekl.		885) 70 Pegasi AR.		Dekl.		888) 248 G. Aquarii AR.		Dekl.	
1945	$23^h\ 22^m$		+61° 58′		$23^h\ 24^m$		+0° 57′		$23^h\ 26^m$		+12° 27′		$23^h\ 32^m$		−7° 45′	
	s		″		s		″		s		″		s		″	
Jan. 1	21.61	36	61.15	134	5.298	95	8.56	76	20.888	104	22.23	101	40.418	98	78.23	52
11	21.25	32	59.81	183	5.203	81	7.80	72	20.784	91	21.22	109	40.320	84	78.75	41
21	20.93	28	57.98	225	5.122	63	7.08	67	20.693	74	20.13	112	40.236	68	79.16	26
31	20.65	22	55.73	259	5.059	42	6.41	56	20.619	52	19.01	112	40.168	47	79.42	10
Febr. 10	20.43	16	53.14	283	5.017	17	5.85	42	20.567	25	17.89	104	40.121	23	79.52	9
20	20.27	8	50.31	294	5.000	11	5.43	25	20.542	4	16.85	91	40.098	5	79.43	28
März 2	20.19	0	47.37	293	5.011	44	5.18	4	20.546	38	15.94	74	40.103	37	79.15	51
12	20.19	9	44.44	281	5.055	80	5.14	19	20.584	75	15.20	50	40.140	72	78.64	74
22	20.28	18	41.63	257	5.135	116	5.33	45	20.659	114	14.70	22	40.212	109	77.90	98
Apr. 1	20.46	26	39.06	223	5.251	153	5.78	72	20.773	153	14.48	8	40.321	147	76.92	121
11	20.72	33	36.83	180	5.404	190	6.50	99	20.926	192	14.56	40	40.468	184	75.71	143
21	21.05	40	35.03	132	5.594	225	7.49	125	21.118	227	14.96	73	40.652	219	74.28	163
Mai 1	21.45	46	33.71	78	5.819	256	8.74	148	21.345	258	15.69	105	40.871	251	72.65	180
11	21.91	49	32.93	22	6.075	281	10.22	169	21.603	284	16.74	135	41.122	278	70.85	192
21	22.40	52	32.71	35	6.356	299	11.91	184	21.887	303	18.09	162	41.400	299	68.93	201
31	22.92	54	33.06	91	6.655	311	13.75	196	22.190	314	19.71	183	41.699	312	66.92	204
Juni 10	23.46	52	33.97	142	6.966	313	15.71	202	22.504	317	21.54	201	42.011	317	64.88	201
20	23.98	51	35.39	192	7.279	309	17.73	202	22.821	312	23.55	213	42.328	314	62.87	193
30	24.49	48	37.31	236	7.588	296	19.75	198	23.133	298	25.68	219	42.642	303	60.94	181
Juli 10	24.97	44	39.67	273	7.884	276	21.73	189	23.431	276	27.87	220	42.945	284	59.13	164
20	25.41	38	42.40	304	8.160	248	23.62	174	23.707	249	30.07	215	43.229	258	57.49	143
30	25.79	31	45.44	328	8.408	216	25.36	156	23.956	217	32.22	206	43.487	227	56.06	119
Aug. 9	26.10	25	48.72	345	8.624	179	26.92	136	24.173	179	34.28	192	43.714	191	54.87	93
19	26.35	18	52.17	354	8.803	140	28.28	113	24.352	139	36.20	176	43.905	151	53.94	66
29	26.53	11	55.71	357	8.943	100	29.41	89	24.491	99	37.96	155	44.056	110	53.28	39
Sept. 8	[11] 26.64	3	59.28	352	[12] 9.043	59	30.30	65	[12] 24.590	59	39.51	134	[14] 44.166	71	52.89	13
17	26.67	4	62.80	339	9.102	22	30.95	42	24.649	22	40.85	111	44.237	31	52.76	10
27	26.63	11	66.19	320	9.124	12	31.37	20	24.671	13	41.96	87	44.268	3	52.86	30
Okt. 7	26.52	17	69.39	294	9.112	41	31.57	1	24.658	42	42.83	64	44.265	35	53.16	48
17	26.35	22	72.33	261	9.071	67	31.56	18	24.616	68	43.47	41	44.230	61	53.64	61
27	26.13	27	74.94	221	9.004	85	31.38	33	24.548	87	43.88	17	44.169	81	54.25	70
Nov. 6	25.86	31	77.15	176	8.919	99	31.05	46	24.461	102	44.05	4	44.088	97	54.95	75
16	25.55	34	78.91	127	8.820	108	30.59	56	24.359	112	44.01	25	43.991	106	55.70	77
26	25.21	37	80.18	73	8.712	111	30.03	64	24.247	117	43.76	44	43.885	110	56.47	76
Dez. 6	24.84	38	80.91	16	8.601	111	29.39	70	24.130	117	43.32	63	43.775	111	57.23	73
16	24.46	38	81.07	42	8.490	106	28.69	74	24.013	115	42.69	78	43.664	108	57.96	65
26	24.08	36	80.65	97	8.384	98	27.95	74	23.898	107	41.91	93	43.556	101	58.61	57
36	23.72		79.68		8.286		27.21		23.791		40.98		43.455		59.18	
Mittl. Ort	22.99		50.54		6.705		15.48		22.235		25.30		41.824		68.21	
sec δ, tg δ	2.129		+1.879		1.000		+0.017		1.024		+0.221		1.009		−0.136	
a, *a′*	+2.7		+19.8		+3.1		+19.8		+3.0		+19.8		+3.1		+19.9	
b, *b′*	+0.12		+ 0.16		0.00		+ 0.16		+0.01		+ 0.15		−0.01		+ 0.12	

Scheinbare Sternörter 1945

Tag	890) λ Andromedae AR.		890) λ Andromedae Dekl.		891) ι Andromedae AR.		891) ι Andromedae Dekl.		893) γ Cephei AR.		893) γ Cephei Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.	
1945	$23^h\ 34^m$		+46° 9′		$23^h\ 35^m$		+42° 57′		$23^h\ 36^m$		+77° 19′		$23^h\ 37^m$		+5° 19′	
	s		″		s		″		s		″		s		″	
Jan. 1	50.592	207	43.48	128	24.653	190	54.83	126	62.69	91	44.26	91	5.855	101	35.39	84
11	50.385	190	42.20	167	24.463	174	53.57	163	61.78	84	43.35	150	5.754	90	34.55	86
21	50.195	166	40.53	200	24.289	151	51.94	193	60.94	75	41.85	203	5.664	75	33.69	82
31	50.029	132	38.53	226	24.138	121	50.01	217	60.19	63	39.82	248	5.589	54	32.87	76
Febr. 10	49.897	92	36.27	241	24.017	83	47.84	230	59.56	48	37.34	282	5.535	31	32.11	66
20	49.805	45	33.86	248	23.934	39	45.54	235	59.08	31	34.52	304	5.504	2	31.45	50
März 2	49.760	$\overline{8}$	31.38	242	23.895	$\overline{10}$	43.19	228	58.77	12	31.48	314	5.502	$\overline{30}$	30.95	30
12	49.768	65	28.96	227	23.905	63	40.91	212	58.65	$\overline{5}$	28.34	312	5.532	66	30.65	8
22	49.833	122	26.69	203	23.968	118	38.79	187	58.70	25	25.22	296	5.598	103	30.57	18
Apr. 1	49.955	179	24.66	169	24.086	172	36.92	154	58.95	43	22.26	270	5.701	142	30.75	46
11	50.134	234	22.97	129	24.258	224	35.38	114	59.38	59	19.56	233	5.843	181	31.21	75
21	50.368	284	21.68	83	24.482	272	34.24	69	59.97	73	17.23	188	6.024	217	31.96	104
Mai 1	50.652	326	20.85	35	24.754	312	33.55	22	60.70	85	15.35	136	6.241	249	33.00	130
11	50.978	359	20.50	$\overline{15}$	25.066	344	33.33	$\overline{27}$	61.55	94	13.99	81	6.490	276	34.30	153
21	51.337	384	20.65	65	25.410	368	33.60	75	62.49	100	13.18	23	6.766	296	35.83	174
31	51.721	396	21.30	114	25.778	380	34.35	122	63.49	102	12.95	$\overline{35}$	7.062	310	37.57	190
Juni 10	52.117	398	22.44	158	26.158	383	35.57	164	64.51	102	13.30	93	7.372	315	39.47	201
20	52.515	390	24.02	198	26.541	375	37.21	202	65.53	99	14.23	147	7.687	311	41.48	205
30	52.905	371	26.00	234	26.916	358	39.23	235	66.52	93	15.70	198	7.998	301	43.53	206
Juli 10	53.276	342	28.34	263	27.274	330	41.58	262	67.45	85	17.68	243	8.299	282	45.59	200
20	53.618	306	30.97	285	27.604	296	44.20	283	68.30	74	20.11	283	8.581	256	47.59	190
30	53.924	264	33.82	302	27.900	256	47.03	296	69.04	64	22.94	317	8.837	225	49.49	176
Aug. 9	54.188	217	36.84	311	28.156	211	49.99	304	69.68	50	26.11	343	9.062	189	51.25	157
19	54.405	166	39.95	314	28.367	162	53.03	305	70.18	36	29.54	363	9.251	151	52.82	138
29	54.571	114	43.09	310	28.529	113	56.08	300	70.54	21	33.17	374	9.402	112	54.20	115
Sept. 8	54.685	64	46.19	301	28.642	64	59.08	290	70.75	7	36.91	379	9.514	72	55.35	91
17	^{15}54.749	14	49.20	285	^{15}28.706	18	61.98	273	^{15}70.82	$\overline{7}$	40.70	375	^{15}9.586	35	56.26	68
27	54.763	$\overline{33}$	52.05	265	28.724	$\overline{27}$	64.71	251	70.75	23	44.45	363	9.621	1	56.94	45
Okt. 7	54.730	74	54.70	238	28.697	67	67.22	225	70.52	36	48.08	344	9.622	$\overline{30}$	57.39	24
17	54.656	112	57.08	207	28.630	102	69.47	194	70.16	50	51.52	317	9.592	55	57.63	4
27	54.544	144	59.15	171	28.528	131	71.41	159	69.66	61	54.69	282	9.537	76	57.67	$\overline{15}$
Nov. 6	54.400	170	60.86	131	28.397	157	73.00	121	69.05	72	57.51	238	9.461	91	57.52	30
16	54.230	191	62.17	88	28.240	175	74.21	78	68.33	81	59.89	189	9.370	103	57.22	45
26	54.039	205	63.05	43	28.065	189	74.99	35	67.52	87	61.78	134	9.267	108	56.77	57
Dez. 6	53.834	214	63.48	$\overline{5}$	27.876	196	75.34	$\overline{10}$	66.65	92	63.12	75	9.159	110	56.20	67
16	53.620	217	63.43	53	27.680	198	75.24	55	65.73	95	63.87	12	9.049	109	55.53	75
26	53.403	211	62.90	98	27.482	194	74.69	98	64.78	92	63.99	$\overline{51}$	8.940	103	54.78	80
36	53.192		61.92		27.288		73.71		63.86		63.48		8.837		53.98	
Mittl. Ort	51.830		36.31		25.888		48.51		64.15		31.37		7.170		41.04	
sec δ, tg δ	1.444		+1.041		1.367		+0.931		4.558		+4.447		1.004		+0.093	
a, *a′*	+2.9		+19.9		+2.9		+19.9		+2.5		+19.9		+3.1		+19.9	
b, *b′*	+0.07		+ 0.11		+0.06		+ 0.11		+0.30		+ 0.10		+0.01		+ 0.10	

Tag	894) ω² Aquarii AR.		894) Dekl.		895) 41 H. Cephei AR.		895) Dekl.		896) δ Sculptoris AR.		896) Dekl.		898) φ Pegasi AR.		898) Dekl.	
1945	23h 39m		−14° 50′		23h 45m		+67° 29′		23h 46m		−28° 25′		23h 49m		+18° 48′	
	s		″		s		″		s		″		s		″	
Jan. 1	50.845	103	69.55	34	14.70	48	75.94	96	2.379	123	81.02	2	39.965	121	52.19	100
11	50.742	90	69.89	16	14.22	45	74.98	152	2.256	109	81.00	34	39.844	111	51.19	115
21	50.652	75	70.05	$\overline{5}$	13.77	40	73.46	201	2.147	91	80.66	65	39.733	98	50.04	124
31	50.577	54	70.00	27	13.37	33	71.45	241	2.056	68	80.01	94	39.635	78	48.80	130
Febr. 10	50.523	29	69.73	48	13.04	26	69.04	272	1.988	41	79.07	123	39.557	53	47.50	129
20	50.494	1	69.25	72	12.78	17	66.32	292	1.947	11	77.84	150	39.504	23	46.21	120
März 2	50.493	$\overline{30}$	68.53	94	12.61	6	63.40	300	1.936	$\overline{24}$	76.34	175	39.481	$\overline{11}$	45.01	107
12	50.523	66	67.59	117	12.55	$\overline{4}$	60.40	295	1.960	62	74.59	196	39.492	50	43.94	87
22	50.589	103	66.42	140	12.59	15	57.45	278	2.022	102	72.63	215	39.542	92	43.07	61
Apr. 1	50.692	142	65.02	160	12.74	25	54.67	251	2.124	143	70.48	230	39.634	133	42.46	31
11	50.834	181	63.42	178	12.99	35	52.16	214	2.267	185	68.18	240	39.767	175	42.15	$\overline{1}$
21	51.015	217	61.64	194	13.34	43	50.02	168	2.452	225	65.78	247	39.942	214	42.16	37
Mai 1	51.232	250	59.70	205	13.77	52	48.34	118	2.677	261	63.31	248	40.156	250	42.53	72
11	51.482	279	57.65	211	14.29	57	47.16	64	2.938	293	60.83	243	40.406	279	43.25	105
21	51.761	301	55.54	213	14.86	60	46.52	7	3.231	318	58.40	233	40.685	302	44.30	137
31	52.062	316	53.41	210	15.46	63	46.45	$\overline{50}$	3.549	336	56.07	217	40.987	317	45.67	165
Juni 10	52.378	324	51.31	201	16.09	64	46.95	104	3.885	345	53.90	195	41.304	324	47.32	189
20	52.702	321	49.30	186	16.73	62	47.99	156	4.230	346	51.95	169	41.628	321	49.21	207
30	53.023	312	47.44	167	17.35	59	49.55	205	4.576	338	50.26	138	41.949	311	51.28	220
Juli 10	53.335	295	45.77	144	17.94	55	51.60	247	4.914	321	48.88	103	42.260	292	53.48	228
20	53.630	269	44.33	118	18.49	48	54.07	284	5.235	295	47.85	67	42.552	268	55.76	229
30	53.899	238	43.15	88	18.97	42	56.91	314	5.530	263	47.18	29	42.820	236	58.05	227
Aug. 9	54.137	202	42.27	58	19.39	35	60.05	337	5.793	225	46.89	$\overline{9}$	43.056	201	60.32	218
19	54.339	163	41.69	28	19.74	26	63.42	354	6.018	183	46.98	44	43.257	163	62.50	206
29	54.502	121	41.41	$\overline{2}$	20.00	17	66.96	363	6.201	137	47.42	77	43.420	122	64.56	190
Sept. 8	54.623	80	41.43	28	20.17	9	70.59	364	6.338	91	48.19	105	43.542	83	66.46	171
17*)	54.703	39	41.71	52	20.26	1	74.23	358	6.429	47	49.24	129	43.625	45	68.17	149
27	54.742	3	42.23	72	20.27	$\overline{8}$	77.81	345	6.476	4	50.53	145	43.670	10	69.66	127
Okt. 7	54.745	$\overline{30}$	42.95	86	20.19	16	81.26	324	6.480	$\overline{33}$	51.98	155	43.680	$\overline{23}$	70.93	103
17	54.715	59	43.81	96	20.03	23	84.50	295	6.447	65	53.53	157	43.657	50	71.96	78
27	54.656	80	44.77	101	19.80	30	87.45	261	6.382	93	55.10	153	43.607	73	72.74	54
Nov. 6	54.576	97	45.78	100	19.50	36	90.06	218	6.289	112	56.63	141	43.534	91	73.28	28
16	54.479	108	46.78	95	19.14	41	92.24	171	6.177	127	58.04	123	43.443	106	73.56	3
26	54.371	114	47.73	86	18.73	44	93.95	117	6.050	134	59.27	101	43.337	116	73.59	$\overline{21}$
Dez. 6	54.257	115	48.59	75	18.29	48	95.12	60	5.916	136	60.28	75	43.221	121	73.38	45
16	54.142	113	49.34	60	17.81	48	95.72	1	5.780	134	61.03	46	43.100	124	72.93	67
26	54.029	106	49.94	43	17.33	49	95.73	$\overline{58}$	5.646	126	61.49	14	42.976	121	72.26	87
36	53.923		50.37		16.84		95.15		5.520		61.63		42.855		71.39	
Mittl. Ort	52.250		57.03		15.90		64.28		3.847		64.13		41.164		53.37	
sec δ, tg δ	1.035		−0.265		2.613		+2.414		1.137		−0.542		1.057		+0.341	
a, a′	+3.1		+20.0		+2.9		+20.0		+3.1		+20.0		+3.1		+20.0	
b, b′	−0.02		+ 0.09		+0.16		+ 0.06		−0.04		+ 0.06		+0.02		+ 0.05	

*) Bei Stern 898) lies Sept. 18.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Tag	899) ρ Cassiopeiae				900) 27 Piscium				902) ω Piscium				903) ε Tucanae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1945	$23^h\ 51^m$		$+57°\ 11'$		$23^h\ 55^m$		$-3°\ 51'$		$23^h\ 56^m$		$+6°\ 33'$		$23^h\ 57^m$		$-65°\ 52'$	
Jan. 1	$36^s.301$	304	$46''.18$	100	$50^s.163$	106	$49''.12$	63	$27^s.888$	109	$26''.29$	82	$2^s.27$	39	$84''.26$	107
11	35.997	287	45.18	150	50.057	97	49.75	53	27.779	100	25.47	83	1.88	34	83.19	161
21	35.710	259	43.68	193	49.960	84	50.28	43	27.679	89	24.64	82	1.54	30	81.58	210
31	35.451	218	41.75	229	49.876	67	50.71	28	27.590	71	23.82	76	1.24	25	79.48	253
Febr. 10	35.233	167	39.46	254	49.809	45	50.99	12	27.519	49	23.06	67	0.99	17	76.95	290
20	35.066	107	36.92	270	49.764	18	51.11	$\overline{6}$	27.470	22	22.39	53	0.82	11	74.05	319
März 2	34.959	39	34.22	274	49.746	$\overline{12}$	51.05	28	27.448	$\overline{10}$	21.86	35	0.71	3	70.86	341
12	34.920	$\overline{35}$	31.48	266	49.758	47	50.77	51	27.458	45	21.51	13	0.68	$\overline{4}$	67.45	355
22	34.955	111	28.82	248	49.805	84	50.26	76	27.503	84	21.38	$\overline{12}$	0.72	13	63.90	362
Apr. 1	35.066	186	26.34	220	49.889	124	49.50	100	27.587	124	21.50	39	0.85	21	60.28	360
11	35.252	256	24.14	182	50.013	163	48.50	124	27.711	163	21.89	67	1.06	30	56.68	351
21	35.508	322	22.32	138	50.176	200	47.26	147	27.874	202	22.56	96	1.36	37	53.17	335
Mai 1	35.830	379	20.94	90	50.376	234	45.79	166	28.076	236	23.52	124	1.73	44	49.82	312
11	36.209	423	20.04	37	50.610	265	44.13	183	28.312	266	24.76	148	2.17	50	46.70	280
21	36.632	455	19.67	$\overline{17}$	50.875	288	42.30	196	28.578	290	26.24	169	2.67	56	43.90	244
31	37.087	476	19.84	69	51.163	305	40.34	203	28.868	306	27.93	186	3.23	59	41.46	201
Juni 10	37.563	481	20.53	120	51.468	314	38.31	205	29.174	314	29.79	198	3.82	62	39.45	154
20	38.044	474	21.73	168	51.782	314	36.26	202	29.488	314	31.77	206	4.44	63	37.91	103
30	38.518	455	23.41	211	52.096	306	34.24	193	29.802	306	33.83	207	5.07	63	36.88	49
Juli 10	38.973	423	25.52	249	52.402	291	32.31	180	30.108	290	35.90	204	5.70	60	36.39	$\overline{5}$
20	39.396	383	28.01	280	52.693	269	30.51	162	30.398	267	37.94	195	6.30	56	36.44	60
30	39.779	334	30.81	306	52.962	240	28.89	141	30.665	238	39.89	182	6.86	50	37.04	112
Aug. 9	40.113	279	33.87	325	53.202	207	27.48	117	30.903	205	41.71	165	7.36	43	38.16	160
19	40.392	220	37.12	336	53.409	170	26.31	91	31.108	168	43.36	145	7.79	36	39.76	202
29	40.612	157	40.48	341	53.579	131	25.40	65	31.276	130	44.81	124	8.15	26	41.78	238
Sept. 8	40.769	95	43.89	339	53.710	92	24.75	38	31.406	92	46.05	101	8.41	16	44.16	264
18	40.864	34	47.28	330	53.802	55	24.37	15	31.498	54	47.06	77	8.57	7	46.80	280
27	[19] 40.898	$\overline{26}$	50.58	314	[20] 53.857	19	24.22	$\overline{8}$	[20] 31.552	19	47.83	55	[20] 8.64	$\overline{3}$	49.60	287
Okt. 7	40.872	82	53.72	292	53.876	$\overline{13}$	24.30	28	31.571	$\overline{11}$	48.38	32	8.61	12	52.47	280
17	40.790	132	56.64	264	53.863	40	24.58	44	31.560	39	48.70	13	8.49	21	55.27	263
27	40.658	178	59.28	230	53.823	62	25.02	56	31.521	61	48.83	$\overline{7}$	8.28	28	57.90	235
Nov. 6	40.480	218	61.58	189	53.761	81	25.58	65	31.460	80	48.76	23	8.00	33	60.25	197
16	40.262	252	63.47	143	53.680	94	26.23	70	31.380	93	48.53	38	7.67	38	62.22	151
26	40.010	279	64.90	94	53.586	103	26.93	74	31.287	102	48.15	50	7.29	41	63.73	99
Dez. 6	39.731	297	65.84	42	53.483	107	27.67	73	31.185	108	47.65	61	6.88	42	64.72	43
16	39.434	307	66.26	$\overline{12}$	53.376	109	28.40	70	31.077	111	47.04	71	6.46	41	65.15	$\overline{16}$
26	39.127	307	66.14	66	53.267	106	29.10	65	30.966	108	46.33	76	6.05	40	64.99	74
36	38.820		65.48		53.161		29.75		30.858		45.57		5.65		64.25	
Mittl. Ort	37.423		36.42		51.410		39.99		29.090		31.78		4.38		59.08	
sec δ, tg δ	1.846		+1.551		1.002		−0.067		1.007		+0.115		2.447		−2.234	
a, *a'*	+3.0		+20.0		+3.1		+20.0		+3.1		+20.0		+3.1		+20.0	
b, *b'*	+0.10		+ 0.04		0.00		+ 0.02		+0.01		+ 0.02		−0.15		+ 0.01	

Na) 43 Hev. Cephei $4^m_.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$1^h\ 0^m$	$+85°\ 58'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 57'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 57'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 57'$	in $0^s.01$	in $0''.01$
1	52.31	0.82	+4	+9	42.88	60.22	−7	+3	36.09	54.82	−8	+1	32.95	45.73	−3	−9
2	52.01	0.90	0	+9	42.59	60.10	−8	−1	35.91	54.56	−8	−3	32.94	45.42	+1	−10
3	51.71	0.97	−3	+8	42.31	59.97	−8	−5	35.73	54.30	−7	−6	32.94	45.11	+4	−9
4	51.40	1.04	−6	+5	42.03	59.84	−7	−8	35.55	54.04	−5	−9	32.94	44.80	+7	−7
5	51.10	1.10	−8	+1	41.75	59.70	−4	−10	35.38	53.77	−2	−10	32.95	44.49	+8	−3
6	50.79	1.15	−8	−2	41.48	59.56	0	−10	35.22	53.50	+2	−10	32.96	44.18	+8	+1
7	50.48	1.19	−7	−6	41.20	59.41	+4	−9	35.06	53.23	+5	−8	*)32.98	43.88	+5	+4
8	50.18	1.23	−5	−8	40.93	59.25	+7	−7	34.91	52.95	+8	−5	33.01	43.57	+1	+6
9	49.87	1.26	−2	−10	40.67	59.09	+9	−3	34.77	52.67	+9	−1	33.04	43.27	−3	+6
10	49.55	1.29	+2	−10	40.40	58.92	+8	+1	34.63	52.39	+7	+3	33.08	42.96	−7	+4
11	49.24	1.31	+5	−8	40.14	58.75	+6	+5	34.49	52.10	+4	+6	33.12	42.66	−9	+1
12	48.93	1.32	+8	−5	39.88	58.57	+2	+7	34.36	51.81	0	+7	33.17	42.36	−9	−3
13	48.62	1.33	+9	−1	39.63	58.39	−2	+7	34.24	51.52	−4	+6	33.22	42.06	−7	−5
14	48.31	1.33	+8	+3	39.37	58.20	−6	+6	34.12	51.23	−8	+4	33.28	41.75	−3	−7
15	47.99	1.32	+5	+6	39.12	58.01	−8	+3	34.00	50.94	−9	0	33.35	41.46	+2	−6
16	47.68	1.31	+1	+8	38.88	57.81	−9	−1	33.89	50.64	−8	−3	33.42	41.16	+6	−3
17	47.38	1.29	−3	+7	38.64	57.61	−7	−4	33.79	50.34	−5	−5	33.50	40.87	+9	0
18	47.07	1.26	−7	+5	38.40	57.40	−4	−6	33.70	50.04	−1	−6	33.58	40.58	+10	+4
19	46.76	1.23	−9	+1	38.17	57.18	+1	−6	33.61	49.74	+3	−5	33.67	40.29	+9	+8
20	46.46	1.19	−8	−3	37.94	56.96	+5	−4	33.52	49.44	+7	−2	33.76	40.00	+6	+10
21	46.15	1.14	−6	−5	37.72	56.74	+8	−1	33.44	49.14	+9	+2	33.86	39.72	+2	+10
22	45.85	1.09	−2	−6	37.50	56.52	+9	+3	33.37	48.83	+9	+5	33.97	39.44	−1	+9
23	45.54	1.03	+2	−6	37.28	56.29	+8	+6	33.30	48.52	+7	+8	34.08	39.16	−4	+7
24	45.24	0.97	+6	−3	37.07	56.05	+6	+8	33.24	48.21	+4	+10	34.20	38.88	−7	+4
25	44.94	0.90	+8	0	36.86	55.82	+3	+9	33.18	47.90	+1	+10	34.32	38.61	−8	0
26	44.64	0.82	+9	+3	36.66	55.57	0	+9	33.13	47.59	−3	+8	34.44	38.33	−8	−3
27	44.34	0.74	+8	+6	36.46	55.33	−4	+7	33.09	47.28	−5	+5	34.57	38.07	−6	−6
28	44.05	0.65	+5	+8	36.27	55.08	−6	+4	33.05	46.97	−7	+2	34.71	37.80	−4	−8
29	43.75	0.55	+2	+9	36.09	54.82	−8	+1	33.01	46.66	−8	−1	34.85	37.54	0	−9
30	43.46	0.45	−2	+8					32.98	46.35	−7	−5	34.99	37.28	+3	−9
31	43.17	0.34	−5	+6					32.96	46.04	−6	−7	35.14	37.03	+6	−7
32	42.88	0.22	−7	+3					32.95	45.73	−3	−9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 57′ 30″	14.188	+14.153	+85° 57′ 40″	14.198	+14.163	+85° 58′ 0″	14.217	+14.182
40	14.198	+14.163	50	14.208	+14.172	10	14.227	+14.192

$\alpha_{1945.0} = 1^h\ 0^m\ 50^s.01$ $\delta_{1945.0} = +85°\ 57'\ 47''.62$

*) Tag der doppelten unteren Kulmination: April 7.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^{m}.52$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$1^h\ 0^m$	+85° 57′	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	+85° 57′	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	+85° 57′	in $0^s.01$	in $0''.01$	$1^h\ 1^m$	+85° 57′	in $0^s.01$	in $0''.01$
	s	"			s	"			s	"			s	"		
1	35.14	37.03	+6	−7	41.91	31.17	+5	+5	50.79	30.19	−6	+5	0.02	34.28	−6	−6
2	35.30	36.78	+8	−4	42.18	31.06	+1	+6	51.10	30.24	−9	+2	0.29	34.49	−2	−7
3	35.46	36.53	+8	0	42.45	30.95	−4	+6	51.41	30.30	−10	−2	0.57	34.71	+3	−6
4	35.62	36.28	+7	+3	42.73	30.84	−7	+3	51.73	30.36	−8	−6	0.84	34.93	+7	−4
5	35.79	36.04	+3	+5	43.01	30.75	−9	0	52.04	30.43	−5	−8	1.10	35.15	+9	0
6	35.97	35.80	−1	+6	43.29	30.66	−10	−4	52.34	30.50	0	−8	1.37	35.38	+9	+4
7	36.15	35.57	−5	+5	43.57	30.57	−7	−7	52.65	30.58	+4	−6	1.63	35.62	+8	+7
8	36.33	35.34	−9	+2	43.86	30.49	−3	−8	52.96	30.67	+8	−2	1.89	35.86	+5	+10
9	36.52	35.12	−10	−2	44.14	30.42	+2	−7	53.26	30.76	+9	+2	2.15	36.10	+1	+10
10	36.72	34.90	−9	−5	44.44	30.35	+6	−4	53.57	30.86	+9	+6	2.40	36.35	−3	+9
11	36.92	34.68	−5	−7	44.73	30.29	+9	0	53.87	30.96	+7	+9	2.66	36.60	−6	+6
12	37.12	34.47	−1	−7	45.02	30.23	+10	+4	54.18	31.06	+3	+10	2.91	36.85	−8	+3
13	37.32	34.26	+4	−5	45.31	30.18	+8	+8	54.48	31.17	−1	+10	3.16	37.11	−8	−1
14	37.53	34.05	+8	−2	45.61	30.13	+5	+10	54.78	31.29	−4	+8	3.40	37.37	−8	−5
15	37.74	33.85	+10	+2	45.90	30.09	+2	+11	55.09	31.41	−7	+5	3.64	37.64	−5	−8
16	37.96	33.65	+9	+6	46.20	30.05	−2	+9	55.39	31.54	−8	+1	3.88	37.91	−2	−9
17	38.18	33.46	+7	+9	46.50	30.02	−5	+7	55.69	31.68	−8	−3	4.12	38.19	+1	−10
18	38.41	33.27	+4	+11	46.80	30.00	−7	+3	55.99	31.82	−7	−6	4.35	38.47	+5	−8
19	38.64	33.09	0	+10	47.11	29.98	−8	0	56.29	31.96	−4	−8	4.58	38.75	+8	−6
20	38.87	32.92	−3	+8	47.41	29.97	−8	−4	56.58	32.11	−1	−9	4.80	39.04	+9	−2
21	39.11	32.75	−6	+5	47.72	29.96	−5	−7	56.88	32.27	+3	−9	5.02	39.33	+8	+2
22	39.35	32.58	−8	+2	48.02	29.96	−3	−8	57.17	32.43	+6	−7	5.25	39.62	+6	+5
23	39.59	32.42	−8	−2	48.33	29.96	+1	−9	57.47	32.59	+8	−4	5.46	39.92	+2	+7
24	39.83	32.26	−7	−5	48.63	29.97	+4	−8	57.76	32.76	+9	0	5.68	40.22	−3	+7
25	40.08	32.10	−5	−7	48.93	29.98	+7	−6	58.05	32.93	+7	+3	5.89	40.52	−7	+5
26	40.33	31.95	−2	−9	49.24	30.00	+8	−2	58.33	33.11	+4	+6	6.10	40.83	−9	+1
27	40.59	31.81	+2	−9	49.55	30.03	+8	+1	58.62	33.29	0	+7	6.30	41.14	−9	−2
28	40.84	31.67	+5	−7	49.86	30.06	+6	+4	58.90	33.48	−4	+6	6.50	41.45	−7	−5
29	41.11	31.54	+8	−5	50.17	30.10	+3	+6	59.18	33.68	−8	+3	6.70	41.77	−4	−7
30	41.37	31.41	+9	−1	50.48	30.14	−2	+7	59.46	33.88	−9	0	6.89	42.09	+1	−7
31	41.64	31.29	+8	+2	50.79	30.19	−6	+5	59.74	34.08	−9	−4	7.08	42.41	+6	−4
32	41.91	31.17	+5	+5					60.02	34.28	−6	−6	7.27	42.73	+9	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 57′ 20″	14.178	+14.143	+85° 57′ 30″	14.188	+14.153	+85° 57′ 40″	14.198	+14.163
30	14.188	+14.153	40	14.198	+14.163	50	14.208	+14.172

$\alpha_{1945.0} = 1^h\ 0^m\ 50^s.01$ $\delta_{1945.0} = +85°\ 57'\ 47''.62$

Na) 43 Hev. Cephei $4^{m}.52$

Tag	September AR.	September Dekl.	September ☾ Glieder in 0.01s	September ☾ Glieder in 0.01″	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder in 0.01s	Oktober ☾ Glieder in 0.01″	November AR.	November Dekl.	November ☾ Glieder in 0.01s	November ☾ Glieder in 0.01″	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder in 0.01s	Dezember ☾ Glieder in 0.01″
	$1^h\ 1^m$	$+85°\ 57'$			$1^h\ 1^m$	$+85°\ 57'$			$1^h\ 1^m$	$+85°\ 58'$			$1^h\ 0^m$	$+85°\ 58'$		
	s	″			s	″			s	″			s	″		
1	7.27	42.73	+9	−1	11.02	53.51	+7	+9	10.59	5.63	−7	+4	65.88	15.15	−6	−5
2	7.45	43.06	+10	+3	11.08	53.89	+4	+11	10.49	5.99	−8	0	65.66	15.41	−3	−7
3	7.63	43.38	+9	+7	11.14	54.27	0	+10	10.40	6.35	−7	−3	65.43	15.66	0	−8
4	7.81	43.72	+6	+9	11.19	54.65	−4	+9	10.30	6.70	−5	−6	65.20	15.91	+3	−8
5	7.98	44.05	+2	+10	11.23	55.03	−6	+6	10.19	7.05	−2	−8	64.97	16.15	+6	−6
6	8.15	44.39	−2	+9	11.27	55.42	−8	+2	10.08	7.40	+1	−9	64.73	16.39	+8	−4
7	8.31	44.73	−5	+7	11.31 11.34	55.81 56.19	−8 −7	−2 −5	9.96	7.75	+4	−8	64.49	16.62	+8	0
8	8.47	45.08	−7	+4	11.36	56.58	−4	−8	9.84	8.10	+7	−6	64.25	16.85	+7	+3
9	8.62	45.43	−8	0	11.38	56.97	−1	−9	9.72	8.44	+8	−3	64.00	17.08	+4	+5
10	8.77	45.78	−8	−3	11.40	57.35	+2	−9	9.59	8.79	+8	0	63.76	17.30	0	+6
11	8.92	46.12	−6	−6	11.41	57.74	+5	−8	9.46	9.12	+6	+3	63.50	17.51	−5	+5
12	9.07	46.48	−3	−9	11.42	58.13	+8	−5	9.32	9.46	+3	+5	63.25	17.72	−8	+2
13	9.21	46.83	0	−10	11.42	58.51	+9	−2	9.18	9.79	−2	+5	62.99	17.92	−10	−2
14	9.35	47.19	+3	−9	11.42	58.89	+8	+1	9.03	10.12	−6	+4	62.73	18.12	−10	−5
15	9.48	47.55	+6	−7	11.41	59.27	+5	+4	8.88	10.44	−10	+1	62.46	18.31	−7	−8
16	9.61	47.91	+8	−4	11.40	59.65	+1	+6	8.72	10.76	−10	−3	62.19	18.49	−3	−9
17	9.73	48.27	+8	0	11.38	60.03	−4	+5	8.56	11.08	−9	−6	61.92	18.67	+2	−8
18	9.85	48.64	+7	+3	11.36	60.41	−8	+3	8.40	11.40	−5	−8	61.65	18.85	+7	−5
19	9.97	49.01	+3	+6	11.34	60.79	−10	0	8.23	11.71	0	−8	61.37	19.02	+9	0
20	10.08	49.38	−1	+6	11.31	61.18	−10	−4	8.05	12.02	+5	−6	61.10	19.18	+10	+5
21	10.19	49.74	−5	+5	11.28	61.55	−7	−7	7.88	12.33	+9	−2	60.82	19.34	+8	+9
22	10.30	50.11	−9	+2	11.24	61.93	−3	−8	7.69	12.63	+10	+3	60.53	19.49	+5	+11
23	10.40	50.48	−10	−1	11.19	62.31	+2	−7	7.51	12.93	+10	+7	60.25	19.63	+1	+11
24	10.49	50.86	−9	−5	11.15	62.68	+7	−4	7.32	13.22	+7	+10	59.96	19.77	−3	+10
25	10.58	51.23	−5	−7	11.09	63.05	+9	0	7.12	13.51	+3	+12	59.67	19.90	−6	+7
26	10.67	51.61	−1	−7	11.03	63.43	+10	+5	6.92	13.79	−1	+11	59.38	20.02	−8	+3
27	10.75	51.99	+4	−5	10.97	63.79	+9	+8	6.72	14.07	−4	+9	59.08	20.14	−8	−1
28	10.82	52.37	+8	−2	10.90	64.16	+6	+11	6.52	14.35	−7	+5	58.79	20.26	−7	−4
29	10.89	52.75	+10	+2	10.83	64.53	+2	+11	6.31	14.62	−8	+2	58.49	20.36	−4	−7
30	10.96	53.13	+9	+6	10.75	64.90	−2	+10	6.10	14.89	−8	−2	58.20	20.47	−1	−8
31	11.02	53.51	+7	+9	10.67	65.27	−6	+7	5.88	15.15	−6	−5	57.90	20.56	+2	−8
32					10.59	65.63	−7	+4					57.60	20.65	+5	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 57′ 40″	14.198	+14.163	+85° 58′ 0″	14.217	+14.182	+85° 58′ 20″	14.237	+14.202
50	14.208	+14.172	10	14.227	+14.192	30	14.247	+14.212

$\alpha_{1945.0} = 1^h\ 0^m\ 50^s.01$ $\delta_{1945.0} = +85°\ 57'\ 47''.62$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$ var.

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^h 45^m$	+89° 0′	in $0^s.01$	in $0''.01$	$1^h 44^m$	+89° 0′	in $0^s.01$	in $0''.01$	$1^h 44^m$	+89° 0′	in $0^s.01$	in $0''.01$	$1^h 44^m$	+89° 0′	in $0^s.01$	in $0''.01$
1	$58^s.91$	$26''.70$	+18	+ 8	$80^s.19$	$28''.30$	−27	+ 4	$48^s.63$	$24''.51$	−30	+ 2	$28^s.92$	$16''.25$	−14	− 9
2	57.74	26.85	+ 4	+ 9	78.94	28.24	−32	+ 1	47.70	24.30	−33	− 2	28.64	15.95	− 1	−10
3	56.56	26.99	−10	+ 8	77.70	28.18	−33	− 3	46.78	24.08	−30	− 5	28.38	15.64	+13	−10
4	55.37	27.13	−21	+ 6	76.46	28.11	−28	− 7	45.88	23.86	−22	− 8	28.14	15.34	+25	− 8
5	54.17	27.26	−30	+ 3	75.23	28.04	−17	− 9	45.00	23.63	−10	−10	27.93	15.03	+31	− 4
6	52.96	27.38	−33	− 1	74.00	27.96	− 4	−10	44.14	23.40	+ 5	−11	27.74	14.73	+30	0
7	51.74	27.50	−31	− 4	72.78	27.87	+12	−10	43.29	23.17	+18	− 9	27.58	14.42	+22	+ 3
8	50.52	27.61	−23	− 8	71.57	27.78	+25	− 8	42.46	22.93	+29	− 7	27.44	14.11	+ 7	+ 6
9	49.29	27.71	−11	−10	70.36	27.68	+33	− 4	41.66	22.69	+33	− 3	27.32	13.80	−10	+ 7
10	48.05	27.81	+ 4	−10	69.16	27.58	+33	0	40.87	22.44	+28	+ 2	27.23	13.49	−26	+ 6
11	46.81	27.90	+18	− 9	67.97	27.47	+26	+ 4	40.10	22.19	+17	+ 5	27.16	13.19	−36	+ 3
12	45.56	27.99	+29	− 6	66.79	27.35	+12	+ 7	39.35	21.93	+ 1	+ 7	27.11	12.88	−37	− 1
13	44.31	28.07	+34	− 2	65.62	27.23	− 6	+ 8	38.62	21.67	−16	+ 7	27.09	12.57	−29	− 4
14	43.05	28.14	+31	+ 2	64.46	27.10	−21	+ 7	37.91	21.41	−29	+ 5	27.09	12.27	−14	− 6
15	41.79	28.20	+21	+ 6	63.31	26.97	−32	+ 4	37.22	21.15	−36	+ 2	27.11	11.96	+ 5	− 6
16	40.53	28.26	+ 5	+ 8	62.17	26.83	−34	+ 1	36.55	20.88	−33	− 2	27.16	11.66	+22	− 5
17	39.26	28.31	−11	+ 8	61.04	26.69	−28	− 3	35.91	20.61	−21	− 5	27.23	11.35	+35	− 1
18	37.99	28.35	−25	+ 6	59.93	26.54	−15	− 5	35.29	20.34	− 5	− 6	*)27.32	11.05	+39	+ 3
19	36.71	28.39	−33	+ 3	58.83	26.38	+ 2	− 6	34.69	20.07	+13	− 5	27.44	10.74	+35	+ 6
20	35.44	28.42	−33	− 1	57.75	26.22	+18	− 5	34.11	19.79	+27	− 3	27.58	10.44	+26	+ 9
21	34.16	28.45	−24	− 4	56.68	26.05	+30	− 2	33.55	19.51	+36	0	27.75	10.13	+12	+10
22	32.89	28.47	−10	− 6	55.62	25.88	+36	+ 1	33.02	19.22	+37	+ 4	27.94	9.83	− 2	+10
23	31.61	28.48	+ 7	− 6	54.58	25.70	+34	+ 4	32.51	18.93	+31	+ 7	28.15	9.53	−15	+ 8
24	30.34	28.49	+21	− 4	53.55	25.52	+27	+ 7	32.02	18.64	+20	+ 9	28.38	9.24	−25	+ 5
25	29.06	28.49	+31	− 2	52.53	25.33	+14	+ 9	31.55	18.34	+ 6	+ 9	28.63	8.94	−30	+ 2
26	27.79	28.48	+35	+ 2	51.53	25.13	+ 1	+ 9	31.10	18.05	− 8	+ 8	28.91	8.64	−31	− 2
27	26.51	28.47	+31	+ 5	50.55	24.93	−12	+ 8	30.68	17.75	−19	+ 7	29.21	8.35	−26	− 5
28	25.24	28.45	+22	+ 8	49.58	24.72	−23	+ 5	30.28	17.46	−27	+ 4	29.53	8.06	−17	− 8
29	23.97	28.42	+ 9	+ 9	48.63	24.51	−30	+ 2	29.90	17.16	−31	0	29.87	7.78	− 4	− 9
30	22.71	28.39	− 5	+ 8					29.55	16.86	−30	− 3	30.23	7.49	+ 9	−10
31	21.45	28.35	−17	+ 7					29.22	16.55	−24	− 7	30.62	7.20	+22	− 8
32	20.19	28.30	−27	+ 4					28.92	16.25	−14	− 9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 0′ 0″	57.299	+57.290	+89° 0′ 10″	57.458	+57.450	+89° 0′ 20″	57.619	+57.610
10	57.458	+57.450	20	57.619	+57.610	30	57.780	+57.771

$\alpha_{1945.0} = 1^h\ 45^m\ 36^s.89$ $\delta_{1945.0} = +89°\ 0'\ 14''.29$

*) Tag der doppelten unteren Kulmination: April 18.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$ var.

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^{h}\,44^{m}$	88° 59′	$0^{s}.01$	$0''.01$	$1^{h}\,44^{m}$	88° 59′	$0^{s}.01$	$0''.01$	$1^{h}\,45^{m}$	88° 59′	$0^{s}.01$	$0''.01$	$1^{h}\,46^{m}$	88° 59′	$0^{s}.01$	$0''.01$
	s	″			s	″			s	″			s	″		
1	30.62	67.20	+22	− 8	52.16	59.95	+20	+ 4	25.46	57.03	−21	+ 6	3.94	59.03	−25	− 5
2	31.03	66.92	+30	− 6	53.12	59.78	+ 5	+ 6	26.68	57.01	−33	+ 3	5.15	59.18	− 9	− 7
3	31.47	66.64	+32	− 2	54.09	59.61	−13	+ 6	27.91	57.00	−37	− 1	6.36	59.33	+ 9	− 7
4	31.92	66.37	+27	+ 2	55.07	59.45	−28	+ 5	29.14	56.99	−32	− 4	7.56	59.49	+24	− 5
5	32.39	66.09	+14	+ 5	56.07	59.29	−37	+ 2	30.38	56.99	−21	− 7	8.75	59.65	+34	− 1
6	32.88	65.81	− 3	+ 6	57.08	59.14	−38	− 2	31.62	57.00	− 3	− 8	9.94	59.82	+37	+ 2
7	33.39	65.54	−20	+ 6	58.10	58.99	−30	− 5	32.86	57.01	+15	− 7	11.12	59.99	+31	+ 6
8	33.93	65.27	−33	+ 4	59.13	58.85	−14	− 7	34.11	57.03	+29	− 4	12.30	60.17	+20	+ 9
9	34.48	65.01	−39	0	60.18	58.71	+ 5	− 8	35.35	57.05	+36	0	13.47	60.35	+ 5	+10
10	35.05	64.75	−35	− 3	61.24	58.58	+22	− 6	36.60	57.08	+36	+ 4	14.64	60.54	− 9	+ 9
11	35.64	64.49	−23	− 6	62.31	58.46	+34	− 2	37.84	57.12	+28	+ 8	15.80	60.73	−21	+ 7
12	36.25	64.24	− 5	− 7	63.39	58.34	+39	+ 2	39.09	57.16	+15	+10	16.95	60.93	−29	+ 4
13	36.88	63.99	+14	− 6	64.48	58.22	+34	+ 6	40.34	57.20	0	+10	18.10	61.13	−33	0
14	37.53	63.74	+29	− 3	65.58	58.11	+24	+ 9	41.60	57.25	−13	+ 9	19.24	61.33	−30	− 3
15	38.20	63.50	+38	0	66.69	58.01	+ 9	+10	42.85	57.30	−25	+ 6	20.37	61.54	−23	− 7
16	38.89	63.26	+38	+ 5	67.80	57.91	− 6	+10	44.10	57.36	−31	+ 3	21.49	61.75	−11	− 9
17	39.59	63.02	+31	+ 8	68.93	57.81	−19	+ 8	45.35	57.42	−32	− 1	22.60	61.97	+ 2	−10
18	40.31	62.79	+18	+10	70.06	57.72	−27	+ 5	46.60	57.49	−28	− 5	23.71	62.19	+16	− 9
19	41.05	62.56	+ 3	+10	71.20	57.63	−32	+ 1	47.85	57.57	−18	− 8	24.81	62.42	+27	− 7
20	41.81	62.33	−11	+ 9	72.35	57.55	−30	− 2	49.10	57.65	− 5	− 9	25.90	62.65	+33	− 3
21	42.59	62.11	−22	+ 7	73.51	57.48	−23	− 6	50.35	57.74	+ 9	−10	26.97	62.89	+32	0
22	43.38	61.89	−29	+ 3	74.68	57.41	−12	− 8	51.59	57.83	+22	− 8	28.03	63.13	+23	+ 4
23	44.19	61.68	−31	0	75.85	57.35	+ 1	− 9	52.84	57.93	+31	− 5	29.09	63.37	+ 8	+ 6
24	45.02	61.47	−27	− 4	77.03	57.29	+15	− 9	54.08	58.03	+33	− 2	30.14	63.62	− 9	+ 7
25	45.86	61.26	−19	− 7	78.22	57.24	+26	− 7	55.33	58.14	+29	+ 2	31.18	63.87	−25	+ 6
26	46.72	61.06	− 8	− 9	79.41	57.19	+32	− 4	56.57	58.25	+18	+ 5	32.20	64.13	−35	+ 3
27	47.59	60.86	+ 5	− 9	80.61	57.15	+32	0	57.81	58.37	+ 2	+ 7	33.22	64.39	−36	− 1
28	48.48	60.67	+18	− 8	81.81	57.11	+25	+ 3	59.04	58.49	−15	+ 7	34.23	64.65	−29	− 4
29	49.38	60.48	+28	− 6	83.02	57.08	+12	+ 6	60.27	58.62	−28	+ 5	35.23	64.92	−15	− 6
30	50.29	60.30	+32	− 3	84.24	57.05	− 5	+ 7	61.50	58.75	−36	+ 2	36.22	65.19	+ 3	− 7
31	51.22	60.12	+30	+ 1	85.46	57.03	−21	+ 6	62.72	58.89	−35	− 2	37.20	65.47	+21	− 6
32	52.16	59.95	+20	+ 4					63.94	59.03	−25	− 5	38.16	65.75	+33	− 2

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 59′ 50″	57.140	+57.131	+89° 0′ 0″	57.299	+57.290
60	57.299	+57.290	10	57.458	+57.450

$\alpha_{1945.0} = 1^{h}\,45^{m}\,36^{s}.89$ $\delta_{1945.0} = +89°\,0'\,14''.29$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$ var.

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^h 46^m$	89° 0′	$0^s.01$	$0''.01$	$1^h 47^m$	89° 0′	$0^s.01$	$0''.01$	$1^h 46^m$	89° 0′	$0^s.01$	$0''.01$	$1^h 46^m$	89° 0′	$0^s.01$	$0''.01$
1	$38^s.16$	$5''.75$	+33	− 2	$0^s.64$	$15''.57$	+31	+ 8	$67^s.62$	$27''.69$	−28	+ 5	55.53	$38''.26$	−24	− 4
2	39.11	6.03	+38	+ 1	1.15	15.93	+18	+10	67.52	28.07	−31	+ 1	54.82	38.57	−14	− 7
3	40.05	6.32	+35	+ 5	1.64	16.30	+ 2	+10	67.39	28.45	−28	− 2	54.09	38.88	− 2	− 8
4	40.98	6.61	+25	+ 8	2.11	16.66	−12	+ 9	67.24	28.82	−21	− 5	53.34	39.18	+10	− 8
5	41.89	6.90	+11	+10	2.56	17.03	−23	+ 7	67.07	29.20	−12	− 8	52.57	39.48	+22	− 7
6	42.79	7.20	− 4	+10	3.00	17.41	−30	+ 3	66.88	29.58	+ 1	− 9	51.79	39.77	+30	− 5
7	43.68	7.50	−17	+ 8	3.42	17.78	−32	0	66.68	29.95	+14	− 9	50.99	40.06	+32	− 2
8	44.55	7.80	−27	+ 5	3.82	18.16	−28	− 4	66.45	30.32	+25	− 7	50.17	40.34	+28	+ 1
9	45.41	8.11	−32	+ 2	4.20	18.53	−20	− 7	66.20	30.69	+31	− 5	49.33	40.62	+17	+ 4
10	46.26	8.42	−31	− 2	4.56	18.91	− 8	− 9	65.93	31.06	+31	− 1	48.47	40.90	+ 1	+ 6
11	47.09	8.73	−26	− 5	4.90	19.28	+ 5	−10	65.64	31.43	+24	+ 2	47.60	41.17	−17	+ 6
12	47.91	9.05	−16	− 8	5.23	19.66	+18	− 9	65.32	31.79	+11	+ 5	46.71	41.44	−31	+ 4
13	48.72	9.37	− 4	−10	5.54	20.04	+28	− 7	64.98	32.15	− 6	+ 6	45.80	41.70	−41	0
14	49.51	9.69	+10	−10	5.83	20.42	+32	− 3	64.63	32.51	−24	+ 5	44.88	41.96	−40	− 4
15	50.29	10.02	+23	− 8	6.10	20.80	+29	0	64.25	32.87	−37	+ 2	43.94	42.21	−30	− 7
16	51.05	10.35	+31	− 6	6.35	21.18	+19	+ 3	63.86	33.23	−41	− 1	42.99	42.46	−13	− 9
17	51.80	10.69	+33	− 2	6.58	21.57	+ 4	+ 6	63.45	33.59	−36	− 5	42.02	42.70	+ 7	− 9
18	52.53	11.02	+27	+ 2	6.79 6.99	21.95 22.33	−14 −30	+ 6 + 5	63.01	33.95	−23	− 8	41.03	42.94	+24	− 6
19	53.25	11.35	+14	+ 5	7.16	22.71	−39	+ 2	62.55	34.30	− 3	− 8	40.03	43.17	+37	− 2
20	53.95	11.69	− 3	+ 7	7.31	23.10	−38	− 2	62.07	34.65	+16	− 7	39.02	43.40	+40	+ 3
21	54.64	12.04	−19	+ 6	7.45	23.48	−29	− 6	61.58	34.99	+32	− 4	37.99	43.62	+35	+ 7
22	55.31	12.38	−32	+ 4	7.57	23.87	−12	− 7	61.07	35.33	+40	+ 1	36.95	43.83	+23	+10
23	55.97	12.73	−38	+ 1	7.67	24.25	+ 7	− 7	60.53	35.67	+40	+ 5	35.89	44.04	+ 7	+11
24	56.61	13.07	−34	− 3	7.74	24.63	+25	− 5	59.97	36.01	+31	+ 9	34.82	44.25	− 9	+11
25	57.23	13.42	−22	− 6	7.79	25.01	+37	− 1	59.39	36.34	+16	+11	33.74	44.45	−23	+ 8
26	57.84	13.78	− 4	− 7	7.83	25.40	+41	+ 3	58.80	36.67	0	+11	32.65	44.64	−30	+ 5
27	58.43	14.13	+15	− 6	7.85	25.78	+36	+ 7	58.19	36.99	−15	+10	31.54	44.83	−31	+ 1
28	59.01	14.49	+29	− 4	7.85	26.16	+25	+10	57.55	37.31	−26	+ 7	30.42	45.01	−27	− 3
29	59.57	14.84	+38	0	7.82	26.54	+ 9	+11	56.90	37.63	−31	+ 3	29.29	45.19	−19	− 6
30	60.11	15.20	+38	+ 4	7.77	26.92	− 7	+10	56.22	37.95	−31	− 1	28.15	45.36	− 7	− 8
31	60.64	15.57	+31	+ 8	7.70	27.31	−20	+ 8	55.53	38.26	−24	− 4	27.00	45.52	+ 7	− 8
32					7.62	27.69	−28	+ 5					25.84	45.68	+19	− 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 0′ 0″	57.299	+57.290	+89° 0′ 20″	57.619	+57.610	+89° 0′ 40″	57.942	+57.934
10	57.458	+57.450	30	57.780	+57.771	50	58.106	+58.097

$\alpha_{1945.0} = 1^h\ 45^m\ 36^s.89$ $\delta_{1945.0} = +89°\ 0'\ 14''.29$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nc) Grb 750 Cepheus $6^m.70$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$4^h\ 18^m$	85° 24′	$0^s.01$	$0''.01$	$4^h\ 18^m$	85° 24′	$0^s.01$	$0''.01$	$4^h\ 18^m$	85° 24′	$0^s.01$	$0''.01$	$4^h\ 18^m$	85° 24′	$0^s.01$	$0''.01$
1	32.28	26.42	+8	+4	26.80	33.65	−3	+7	19.66	35.65	−5	+6	12.19	32.37	−8	−5
2	32.17	26.72	+6	+7	26.57	33.80	−6	+5	19.39	35.63	−7	+4	11.99	32.18	−6	−8
3	32.05	27.02	+3	+8	26.34	33.95	−8	+2	19.13	35.60	−9	0	11.79	31.99	−3	−10
4	31.93	27.31	0	+8	26.10	34.09	−9	−1	18.87	35.57	−9	−3	11.60	31.79	0	−10
5	31.81	27.59	−4	+7	25.86	34.22	−9	−5	18.61	35.53	−8	−7	11.40	31.59	+3	−8
6	31.68	27.88	−7	+4	25.62	34.35	−7	−8	18.34	35.48	−5	−9	11.22	31.38	+5	−5
7	31.54	28.16	−8	+1	25.37	34.48	−4	−10	18.08	35.43	−2	−10	11.04	31.17	+6	0
8	31.40	28.43	−9	−3	25.13	34.59	0	−10	17.83	35.38	+1	−10	10.86	30.96	+5	+4
9	31.25	28.70	−8	−6	24.88	34.71	+3	−8	17.57	35.32	+5	−7	10.68	30.74	+2	+7
10	31.10	28.96	−5	−9	24.63	34.81	+6	−5	17.31	35.25	+6	−3	10.52	30.52	−2	+9
11	30.94	29.22	−2	−10	24.37	34.91	+7	0	17.06	35.18	+6	+2	10.35	30.29	−5	+8
12	30.78	29.48	+2	−9	24.12	35.01	+6	+4	16.80	35.10	+4	+6	10.19	30.06	−7	+5
13	30.62	29.74	+5	−7	23.87	35.10	+3	+7	16.55	35.01	+1	+8	10.03	29.83	−8	+1
14	30.45	29.99	+7	−3	23.61	35.18	0	+9	16.30	34.92	−3	+9	9.87	29.59	−6	−3
15	30.28	30.24	+7	+2	23.35	35.25	−4	+8	16.05	34.83	−6	+7	9.72	29.36	−3	−6
16	30.10	30.48	+5	+6	23.09	35.32	−6	+6	15.80	34.72	−7	+3	9.57	29.11	+2	−7
17	29.92	30.71	+2	+8	22.83	35.39	−7	+2	15.55	34.62	−6	−1	9.43	28.87	+6	−6
18	29.74	30.95	−2	+9	22.57	35.44	−6	−2	15.31	34.50	−4	−4	9.29	28.62	+9	−4
19	29.55	31.17	−5	+7	22.31	35.49	−3	−5	15.07	34.38	−1	−6	9.16	28.37	+10	0
20	29.36	31.39	−7	+4	22.04	35.53	+1	−7	14.83	34.26	+3	−7	9.04	28.11	+10	+3
21	29.16	31.61	−7	0	21.77	35.57	+4	−6	14.60	34.13	+7	−5	8.92	27.85	+8	+6
22	28.96	31.82	−5	−3	21.50	35.60	+7	−4	14.37	33.99	+9	−3	8.80	27.59	+5	+8
23	28.76	32.03	−2	−6	21.24	35.63	+9	−1	14.14	33.85	+10	+1	8.69	27.33	+2	+9
24	28.56	32.23	+2	−7	20.97	35.65	+9	+2	13.91	33.71	+9	+4	8.58	27.06	−2	+8
25	28.35	32.43	+5	−6	20.71	35.66	+8	+5	13.68	33.56	+7	+7	8.47	26.80	−5	+6
26	28.14	32.62	+8	−4	20.45	35.67	+5	+7	13.46	33.40	+4	+8	8.37	26.53	−7	+3
27	27.92	32.81	+9	0	20.18	35.67	+2	+8	13.24	33.24	0	+8	8.28	26.26	−8	0
28	27.71	32.99	+8	+3	19.92	35.66	−1	+8	13.02	33.08	−3	+7	8.19	25.99	−8	−4
29	27.48	33.16	+7	+6	19.66	35.65	−5	+6	12.81	32.91	−6	+5	8.10	25.71	−6	−7
30	27.26	33.33	+4	+8					12.60	32.73	−8	+2	8.02	25.44	−4	−9
31	27.03	33.49	+1	+8					12.39	32.55	−9	−2	7.95	25.16	−1	−10
32	26.80	33.65	−3	+7					12.19	32.37	−8	−5				

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 24′ 20″	12.484	+12.444	+85° 24′ 30″	12.492	+12.451
30	12.492	+12.451	40	12.499	+12.459

$\alpha_{1945.0} = 4^h\ 18^m\ 22^s.94$ $\delta_{1945.0} = +85°\ 24'\ 20''.47$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nc) Grb 750 Cepheus $6^m\!.70$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$4^h\ 18^m$	$+85°\ 24'$	in $0^s\!.01$	in $0''\!.01$	$4^h\ 18^m$	$+85°\ 24'$	in $0^s\!.01$	in $0''\!.01$	$4^h\ 18^m$	$+85°\ 24'$	in $0^s\!.01$	in $0''\!.01$	$4^h\ 18^m$	$+85°\ 24'$	in $0^s\!.01$	in $0''\!.01$
1	$7^s\!.95$	$25''\!.16$	−1	−10	$8^s\!.09$	$16''\!.29$	+6	+1	$12^s\!.52$	$8''\!.96$	0	+8	$20^s\!.36$	$4''\!.64$	−8	−1
2	7.88	24.88	+2	−9	8.17	16.01	+4	+5	12.73	8.76	−4	+8	20.64	4.57	−6	−4
3	7.81	24.60	+5	−6	8.26	15.74	+1	+7	12.94	8.56	−7	+5	20.94	4.51	−2	−7
4	7.75	24.32	+6	−2	8.35	15.46	−3	+8	13.16	8.37	−9	+1	21.23	4.45	+2	−8
5	7.70	24.04	+5	+2	8.45	15.19	−6	+7	13.37	8.18	−8	−3	21.52	4.39	+6	−6
6	7.65	23.75	+3	+6	8.55	14.92	−8	+4	13.60	8.00	−5	−6	21.82	4.34	+9	−3
7	7.60	23.47	0	+8	8.66	14.65	−9	0	13.82	7.82	−1	−8	22.12	4.30	+10	+1
8	7.56	23.18	−4	+8	8.77	14.39	−7	−4	14.05	7.64	+3	−7	22.40	4.26	+9	+4
9	7.53	22.90	−7	+6	8.89	14.12	−3	−7	14.28	7.47	+7	−5	22.72	4.22	+7	+7
10	7.50	22.61	−9	+2	9.01	13.86	+1	−8	14.52	7.30	+9	−2	23.02	4.19	+4	+9
11	7.47	22.32	−8	−2	9.14	13.60	+5	−7	14.76	7.14	+10	+2	23.32	4.16	0	+9
12	7.45	22.03	−5	−5	9.27	13.34	+9	−4	15.00	6.98	+9	+6	23.63	4.14	−3	+8
13	7.43	21.74	−1	−7	9.40	13.08	+10	0	15.25	6.82	+6	+8	23.93	4.12	−6	+5
14	7.42	21.45	+4	−7	9.54	12.83	+10	+4	15.49	6.67	+2	+9	24.23	4.10	−8	+2
15	7.42	21.16	+8	−5	9.68	12.58	+8	+7	15.74	6.52	−1	+9	24.54	4.09	−8	−2
16	7.42	20.87	+10	−2	9.83	12.33	+5	+9	16.00	6.37	−4	+7	24.85	4.09	−8	−6
17	7.42	20.58	+11	+2	9.98	12.09	+1	+9	16.25	6.23	−7	+4	25.16	4.09	−5	−9
18	7.43	20.29	+9	+5	10.14	11.84	−2	+8	16.51	6.09	−8	0	25.47	4.09	−2	−10
19	7.45	20.00	+7	+8	10.30	11.60	−5	+6	16.77	5.96	−8	−4	25.78	4.10	+1	−10
20	7.47	19.71	+3	+9	10.46	11.36	−7	+2	17.03	5.83	−6	−7	26.09	4.12	+4	−8
21	7.49	19.42	0	+9	10.63	11.13	−8	−1	17.30	5.71	−4	−9	26.40	4.14	+6	−4
22	7.52	19.13	−4	+7	10.80	10.90	−7	−5	17.56	5.59	−1	−10	26.72	4.16	+7	0
23	7.55	18.84	−6	+4	10.97	10.67	−5	−8	17.83	5.47	+3	−9	27.03	4.19	+5	+4
24	7.59	18.55	−7	+1	11.15	10.44	−2	−10	18.10	5.36	+5	−6	27.34	4.22	+2	+7
25	7.64	18.27	−8	−3	11.33	10.22	+1	−10	18.38	5.25	+7	−2	27.65	4.26	−1	+9
26	7.69	17.98	−7	−6	11.52	10.00	+4	−8	18.65	5.15	+6	+2	27.97	4.30	−5	+8
27	*)7.74	17.70	−4	−9	11.71	9.79	+6	−5	18.93	5.05	+4	+6	28.28	4.35	−7	+5
28	7.80	17.41	−2	−10	11.91	9.57	+7	−1	19.21	4.96	+1	+8	28.59	4.40	−8	+1
29	7.87	17.13	+2	−9	12.11	9.37	+6	+3	19.49	4.88	−3	+8	28.90	4.46	−6	−3
30	7.94	16.85	+4	−7	12.31	9.16	+3	+6	19.78	4.80	−6	+7	29.21	4.52	−3	−6
31	8.01	16.57	+6	−4	12.52	8.96	0	+8	20.07	4.72	−8	+4	29.53	4.58	+1	−8
32	8.09	16.29	+6	+1					20.36	4.64	−8	−1	29.84	4.65	+5	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 24′ 0″	12.469	+12.429	+85° 24′ 10″	12.477	+12.436	+85° 24′ 20″	12.484	+12.444
10	12.477	+12.436	20	12.484	+12.444	30	12.492	+12.451

$\alpha_{1945.0} = 4^h\ 18^m\ 22^s\!.94$ $\delta_{1945.0} = +85°\ 24'\ 20''\!.47$

*) Tag der doppelten unteren Kulmination: Mai 27.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nc) Grb 750 Cepheus $6^{m}70$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$4^h\ 18^m$	$+85°\ 24'$	in $0^s.01$	in $0''.01$	$4^h\ 18^m$	$+85°\ 24'$	in $0^s.01$	in $0''.01$	$4^h\ 18^m$	$+85°\ 24'$	in $0^s.01$	in $0''.01$	$4^h\ 18^m$	$+85°\ 24'$	in $0^s.01$	in $0''.01$
1	$29^s.84$	$4''.65$	+5	−7	$38^s.84$	$8''.87$	+10	+2	$46^s.23$	$16''.91$	+1	+10	$50^s.00$	$27''.29$	−7	0
2	30.15	4.73	+8	−5	39.12	9.07	+9	+5	46.41	17.22	−2	+8	50.05	27.63	−7	−4
3	30.47	4.81	+10	−1	39.39	9.28	+6	+8	46.59	17.53	−5	+6	50.09	27.98	−5	−6
4	30.78	4.89	+10	+3	39.67	9.49	+3	+9	46.77	17.84	−7	+2	50.13	28.33	−3	−9
5	31.09	4.98	+8	+6	39.94	9.71	0	+9	46.95	18.16	−7	−1	50.16	28.68	0	−9
6	31.40	5.08	+5	+8	40.21	9.93	−4	+7	47.11	18.47	−7	−5	50.19	29.02	+2	−9
7	31.71	5.18	+2	+9	40.48	10.16	−6	+4	47.28	18.80	−5	−8	50.21	29.37	+5	−6
8	32.01	5.28	−2	+8	40.74	10.39	−8	+1	47.44	19.12	−3	−9	50.23	29.72	+6	−3
9	32.32	5.39	−5	+6	41.00	10.62	−8	−3	47.60	19.44	0	−10	50.24	30.06	+6	+1
10	32.63	5.50	−7	+3	41.26	10.86	−7	−6	47.76	19.77	+3	−8	50.25	30.41	+4	+5
11	32.94	5.61	−8	0	41.52	11.10	−5	−9	47.91	20.10	+5	−5	50.25	30.75	0	+7
12	33.24	5.73	−8	−4	41.78	11.34	−2	−10	48.06	20.43	+6	−2	50.25	31.09	−4	+8
13	33.55	5.86	−6	−7	42.03	11.59	+1	−10	48.20	20.76	+5	+2	50.24	31.44	−7	+6
14	33.85	5.99	−4	−9	42.28	11.84	+4	−8	48.34	21.09	+2	+6	50.22	31.78	−10	+3
15	34.16	6.12	−1	−10	42.52	12.10	+6	−4	48.47	21.42	−2	+8	50.20	32.11	−10	−1
16	34.46	6.26	+3	−9	42.77	12.35	+6	0	48.59	21.76	−5	+8	50.17	32.45	−8	−5
17	34.76	6.41	+5	−6	43.00	12.62	+4	+4	48.71	22.10	−8	+5	50.14	32.79	−4	−8
18	35.06	6.56	+6	−2	43.24	12.88	+1	+7	48.83	22.44	−10	+1	50.10	33.13	+1	−9
19	35.36	6.71	+6	+2	43.47	13.15	−3	+8	48.95	22.78	−9	−3	50.06	33.46	+6	−7
20	35.66	6.87	+3	+6	43.70	13.42	−6	+7	49.06	23.12	−6	−6	50.02	33.80	+9	−4
21	35.96	7.03	0	+8	43.93	13.69	−8	+4	49.16	23.46	−1	−8	49.97	34.13	+11	+1
22	36.25	7.19	−4	+8	44.16	13.97	−9	0	49.26	23.81	+4	−8	49.91	34.45	+10	+5
23	36.55	7.36	−6	+6	44.38	14.25	−6	−4	49.36	24.15	+8	−5	49.85	34.78	+8	+8
24	36.84	7.53	−8	+2	44.60	14.53	−3	−7	49.45	24.50	+11	−1	49.78	35.10	+4	+10
25	37.13	7.71	−7	−2	44.81	14.82	+2	−8	49.53	24.84	+11	+3	49.71	35.42	+1	+10
26	37.42	7.90	−5	−5	45.03	15.11	+6	−7	49.61 / 49.69	25.19 / 25.54	+9 / +7	+7 / +9	49.63	35.74	−3	+8
27	37.70	8.08	0	−7	45.23	15.40	+9	−4	49.76	25.89	+3	+10	49.55	36.05	−5	+5
28	37.99	8.27	+4	−7	45.44	15.70	+11	0	49.83	26.24	−1	+9	49.46	36.37	−7	+2
29	38.27	8.47	+8	−5	45.64	16.00	+11	+4	49.89	26.59	−4	+7	49.37	36.68	−7	−2
30	38.56	8.67	+10	−2	45.84	16.30	+8	+7	49.95	26.94	−6	+4	49.28	36.99	−6	−5
31	38.84	8.87	+10	+2	46.03	16.60	+5	+9	50.00	27.29	−7	0	49.18	37.29	−4	−8
32					46.23	16.91	+1	+10					49.07	37.59	−1	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 24′ 0″	12.469	+ 12.429	+85° 24′ 10″	12.477	+ 12.436	+85° 24′ 30″	12.492	+ 12.451
10	12.477	+ 12.436	20	12.484	+ 12.444	40	12.499	+ 12.459

$\alpha_{1945.0} = 4^h\ 18^m\ 22^s.94$ $\delta_{1945.0} = +85°\ 24'\ 20''.47$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$7^h 15^m$	+ 87° 8′	in $0.^s01$	$0.''01$	$7^h 15^m$	+ 87° 8′	in $0.^s01$	$0.''01$	$7^h 15^m$	+ 87° 8′	in $0.^s01$	$0.''01$	$7^h 15^m$	+ 87° 8′	in $0.^s01$	$0.''01$
1	$46.^s04$	$2.''98$	+11	−6	$46.^s88$	$13.''35$	+ 3	+8	$40.^s67$	$20.''92$	0	+8	$28.^s99$	$24.''96$	−14	+ 1
2	46.21	3.29	+13	−3	46.76	13.66	− 2	+8	40.35	21.13	− 5	+8	28.58	24.99	−15	− 2
3	46.36	3.61	+13	+1	46.63	13.97	− 7	+7	40.02	21.34	−10	+6	28.17	25.02	−13	− 6
4	46.51	3.93	+10	+4	46.50	14.28	−12	+5	39.69	21.55	−14	+3	27.75	25.05	− 9	− 8
5	46.64	4.25	+ 6	+7	46.36	14.59	−15	+2	39.36	21.75	−15	0	27.34	25.07	− 3	− 8
6	46.77	4.57	+ 1	+8	46.20	14.89	−15	−2	39.02	21.94	−15	−4	26.93	25.08	+ 2	− 7
7	46.89	4.90	− 4	+8	46.04	15.19	−13	−5	38.68	22.13	−12	−7	26.52	25.09	+ 7	− 4
8	47.00	5.22	− 9	+6	45.88	15.49	− 9	−8	38.33	22.31	− 6	−9	26.11	25.09	+ 9	0
9	{47.11 47.20	5.55 5.87	−13 −14	+4 0}	45.70	15.78	− 3	−9	37.98	22.48	− 1	−8	25.71	25.08	+ 8	+ 4
10	47.28	6.20	−14	−3	45.51	16.07	+ 3	−8	37.62	22.65	+ 5	−6	25.30	25.07	+ 5	+ 8
11	47.35	6.53	−11	−6	45.32	16.36	+ 8	−5	37.25	22.82	+ 9	−2	24.89	25.05	+ 1	+10
12	47.42	6.86	− 6	−9	45.12	16.65	+11	−1	36.88	22.98	+10	+2	24.49	25.02	− 4	+ 9
13	47.48	7.19	0	−9	44.92	16.93	+11	+4	36.51	23.13	+ 8	+6	24.08	24.99	− 8	+ 6
14	47.53	7.52	+ 6	−7	44.70	17.22	+ 8	+7	36.14	23.28	+ 4	+9	23.68	24.95	− 9	+ 1
15	47.57	7.85	+10	−3	44.48	17.49	+ 3	+9	35.77	23.42	− 1	+9	23.28	24.91	− 8	− 3
16	47.60	8.18	+11	+1	44.25	17.76	− 2	+9	35.39	23.56	− 5	+7	22.88	24.86	− 4	− 7
17	47.62	8.50	+10	+5	44.02	18.03	− 6	+6	35.01	23.69	− 8	+4	22.48	24.81	+ 1	− 9
18	47.63	8.83	+ 6	+8	43.77	18.30	− 8	+2	34.62	23.82	− 8	−1	22.09	24.75	+ 7	− 9
19	47.63	9.16	+ 1	+9	43.52	18.55	− 8	−2	34.24	23.94	− 6	−5	21.70	24.68	+12	− 7
20	47.63	9.49	− 4	+8	43.27	18.81	− 5	−6	33.84	24.05	− 2	−8	21.31	24.61	+15	− 4
21	47.61	9.81	− 8	+5	43.00	19.06	0	−8	33.45	24.16	+ 4	−9	20.92	24.53	+15	0
22	47.59	10.14	− 9	+1	42.73	19.31	+ 5	−9	33.05	24.26	+ 9	−8	20.54	24.45	+13	+ 3
23	47.56	10.47	− 8	−3	42.46	19.56	+ 9	−7	32.65	24.36	+12	−6	20.16	24.36	+ 9	+ 6
24	47.52	10.80	− 4	−7	42.18	19.80	+12	−5	32.25	24.45	+14	−3	19.78	24.27	+ 5	+ 7
25	47.47	11.12	+ 1	−9	41.89	20.03	+13	−1	31.84	24.54	+14	+1	19.40	24.18	0	+ 8
26	47.42	11.45	+ 6	−8	41.59	20.26	+12	+2	31.44	24.62	+11	+4	19.03	24.07	− 5	+ 7
27	47.35	11.77	+10	−6	41.29	20.49	+ 9	+5	31.04	24.69	+ 7	+6	18.66	23.96	−10	+ 5
28	47.27	12.09	+12	−4	40.98	20.71	+ 5	+7	30.63	24.76	+ 2	+8	18.30	23.85	−13	+ 2
29	47.19	12.41	+13	0	40.67	20.92	0	+8	30.22	24.82	− 3	+8	17.93	23.73	−14	− 1
30	47.09	12.72	+11	+3					29.81	24.87	− 8	+7	17.58	23.60	−13	− 5
31	46.99	13.04	+ 8	+6					29.40	24.92	−12	+4	17.22	23.47	−10	− 7
32	46.88	13.35	+ 3	+8					28.99	24.96	−14	+1				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 8′ 0″	19.995	+ 19.970	+87° 8′ 10″	20.015	+ 19.990	+87° 8′ 20″	20.034	+ 20.009
10	20.015	+ 19.990	20	20.034	+ 20.009	30	20.053	+ 20.029

$\alpha_{1945.0} = 7^h\ 15^m\ 29.^s63$ $\delta_{1945.0} = +87°\ 8'\ 7.''60$

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^{m}.26$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$7^h 15^m$	+87° 8′	in 0.01^s	in $0.01''$	$7^h 15^m$	+87° 8′	in 0.01^s	in $0.01''$	$7^h 15^m$	+87° 7′	in 0.01^s	in $0.01''$	$7^h 15^m$	+87° 7′	in 0.01^s	in $0.01''$
1	17.22	23.47	−10	−7	8.80	17.16	+8	−3	6.70	68.41	+6	+7	11.38	58.97	−10	+4
2	16.87	23.33	−5	−9	8.62	16.90	+9	+1	6.74	68.10	+1	+9	11.64	58.68	−11	0
3	16.52	23.19	0	−8	8.46	16.63	+8	+5	6.79	67.79	−4	+9	11.90	58.39	−9	−4
4	16.18	23.04	+5	−6	8.30	16.37	+4	+8	6.85	67.47	−9	+7	12.17	58.11	−4	−7
5	15.84	22.89	+8	−2	8.14	16.10	−1	+10	6.92	67.16	−11	+3	12.45	57.83	+1	−9
6	15.51	22.74	+9	+3	8.00	15.82	−6	+9	6.99	66.85	−11	−2	12.74	57.55	+7	−8
7	15.18	22.58	+6	+7	7.86	15.55	−10	+6	7.07	66.54	−8	−6	13.03	57.27	+12	−6
8	14.86	22.41	+2	+9	7.73	15.27	−11	+1	7.16	66.23	−3	−8	13.32	57.00	+14	−3
9	14.54	22.24	−3	+10	7.60	14.99	−10	−3	7.26	65.92	+3	−9	13.63	56.73	+14	+1
10	14.23	22.07	−8	+7	7.49	14.71	−5	−7	7.36	65.61	+9	−8	13.94	56.46	+12	+4
11	13.92	21.89	−10	+4	7.38	14.42	+1	−9	*) 7.47	65.30	+13	−5	14.25	56.19	+8	+7
12	13.62	21.70	−10	−1	7.28	14.13	+7	−9	7.59	64.99	+15	−1	14.57	55.93	+3	+8
13	13.32	21.51	−7	−5	7.18	13.85	+12	−7	7.71	64.68	+14	+2	14.89	55.66	−3	+8
14	13.03	21.32	−2	−8	7.09	13.56	+15	−4	7.84	64.36	+11	+5	15.22	55.40	−8	+7
15	12.74	21.12	+4	−10	7.01	13.27	+15	0	7.98	64.05	+6	+8	15.56	55.15	−12	+4
16	12.46	20.92	+10	−8	6.93	12.97	+13	+4	8.12	63.75	+1	+8	15.90	54.89	−14	+1
17	12.19	20.71	+14	−6	6.86	12.68	+9	+6	8.27	63.44	−5	+8	16.24	54.64	−14	−3
18	11.92	20.50	+16	−2	6.80	12.38	+4	+8	8.43	63.13	−9	+6	16.60	54.39	−12	−6
19	11.65	20.29	+15	+2	6.75	12.08	−1	+8	8.60	62.83	−12	+3	16.96	54.14	−7	−8
20	11.40	20.07	+12	+5	6.71	11.78	−7	+7	8.78	62.52	−14	−1	17.32	53.90	−2	−9
21	11.15	19.85	+7	+7	6.67	11.48	−11	+4	8.96	62.22	−13	−4	17.69	53.66	+3	−7
22	10.90	19.62	+2	+8	6.64	11.18	−13	+1	9.15	61.92	−9	−7	18.06	53.42	+8	−4
23	10.66	19.39	−3	+8	6.62	10.87	−13	−2	9.34	61.61	−5	−9	18.44	53.18	+10	0
24	10.43	19.16	−8	+6	6.60	10.57	−11	−6	9.54	61.31	+1	−8	18.82	52.95	+9	+4
25	10.20	18.92	−11	+3	6.59	10.27	−7	−8	9.75	61.01	+6	−6	19.21	52.72	+6	+8
26	9.98	18.68	−13	0	6.59	9.96	−2	−9	9.96	60.72	+9	−3	19.60	52.50	+1	+9
27	9.77	18.43	−13	−3	6.60	9.65	+3	−8	10.18	60.42	+10	+2	20.00	52.27	−4	+8
28	9.56	18.19	−10	−6	6.61	9.34	+7	−5	10.41	60.13	+8	+6	20.40	52.06	−8	+6
29	9.36	17.93	−6	−8	6.63	9.03	+9	−1	10.64	59.84	+4	+8	20.81	51.84	−10	+2
30	9.17	17.68	−1	−8	6.66	8.72	+9	+3	10.88	59.55	−1	+9	21.22	51.63	−9	−3
31	8.98	17.42	+4	−7	6.70	8.41	+6	+7	11.13	59.26	−6	+8	21.63	51.42	−6	−7
32	8.80	17.16	+8	−3					11.38	58.97	−10	+4	22.05	51.21	0	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 7′ 50″	19.976	+19.951	+87° 8′ 0″	19.995	+19.970	+87° 8′ 20″	20.034	+20.009
60	19.995	+19.970	10	20.015	+19.990	30	20.053	+20.029

$\alpha_{1945.0} = 7^h\ 15^m\ 29^s.63$ $\delta_{1945.0} = +87°\ 8'\ 7''.60$

*) Tag der doppelten unteren Kulmination: Juli 11.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^{m}_{.}26$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$7^h 15^m$	+87° 7′	in 0.01s	in 0.01″	$7^h 15^m$	+87° 7′	in 0.01s	in 0.01″	$7^h 15^m$	+87° 7′	in 0.01s	in 0.01″	$7^h 16^m$	+87° 7′	in 0.01s	in 0.01″
	s	″			s	″			s	″			s	″		
1	22.05	51.21	0	−9	36.24	46.84	+14	−6	52.30	46.63	+10	+7	6.11	50.95	−4	+7
2	22.48	51.01	+6	−9	36.75	46.76	+15	−2	52.80	46.70	+4	+8	6.50	51.17	−8	+5
3	22.90	50.81	+11	−7	37.26	46.69	+15	+2	53.31	46.78	−1	+8	6.89	51.39	−11	+2
4	23.34	50.61	+14	−4	37.78	46.62	+12	+5	53.81	46.86	−6	+6	7.27	51.62	−12	−1
5	23.77	50.42	+15	0	38.29	46.55	+7	+7	54.31	46.95	−10	+4	7.64	51.85	−11	−5
6	24.21	50.23	+13	+3	38.81	46.49	+2	+8	54.81	47.04	−12	+1	8.01	52.08	−9	−7
7	24.66	50.05	+10	+6	39.33	46.44	−3	+8	55.30	47.14	−13	−2	8.37	52.32	−5	−8
8	25.11	49.87	+5	+8	39.85	46.39	−8	+6	55.79	47.24	−11	−6	8.73	52.56	0	−8
9	25.56	49.70	0	+8	40.37	46.34	−12	+3	56.28	47.35	−8	−8	9.08	52.81	+4	−6
10	26.01	49.53	−5	+7	40.89	46.30	−13	0	56.77	47.46	−4	−9	9.43	53.06	+8	−3
11	26.47	49.36	−10	+5	41.42	46.26	−13	−4	57.25	47.58	+1	−8	9.77	53.31	+8	+2
12	26.93	49.19	−13	+2	41.94	46.23	−11	−7	57.74	47.70	+5	−5	10.10	53.57	+7	+6
13	27.40	49.03	−14	−1	42.46	46.20	−7	−8	58.21	47.83	+8	−1	10.42	53.83	+3	+9
14	27.87	48.87	−13	−5	42.98	46.18	−2	−9	58.69	47.96	+8	+4	10.74	54.09	−3	+10
15	28.34	48.72	−10	−8	43.51	46.16	+3	−7	59.16	48.10	+5	+7	11.05	54.36	−8	+9
16	28.81	48.57	−5	−9	44.03	46.15	+7	−3	59.63	48.25	0	+10	11.35	54.63	−12	+5
17	29.29	48.43	0	−8	44.55	46.14	+8	+1	60.09	48.40	−5	+10	11.64	54.90	−13	+1
18	29.77	48.29	+5	−6	45.07	46.14	+7	+5	60.55	48.55	−10	+8	11.93	55.18	−11	−4
19	30.26	48.15	+9	−2	45.59	46.14	+4	+9	61.01	48.71	−12	+3	12.21	55.46	−6	−8
20	30.74	48.01	+9	+3	46.11	46.14	−1	+10	61.46	48.87	−12	−2	12.49	55.74	+1	−10
21	31.23	47.88	+7	+7	46.63	46.15	−7	+9	61.91	49.03	−8	−6	12.76	56.03	+8	−9
22	31.72	47.76	+3	+9	47.15	46.17	−10	+6	62.35	49.20	−2	−9	13.01	56.32	+13	−7
23	32.22	47.64	−2	+10	47.67	46.19	−11	+1	62.79	49.38	+5	−10	13.26	56.61	+16	−3
24	32.71	47.52	−7	+8	48.19	46.22	−9	−4	63.22	49.56	+11	−8	13.51	56.91	+16	+1
25	33.21	47.41	−10	+3	48.71	46.25	−5	−8	63.65	49.74	+15	−5	13.74	57.20	+14	+5
26	33.71	47.31	−10	−1	49.22	46.29	+2	−10	64.07	49.93	+17	−1	13.96	57.50	+9	+7
27	34.21	47.21	−7	−5	49.73	46.33	+8	−9	64.49	50.13	+16	+3	14.18	57.80	+4	+8
28	34.72	47.11	−2	−8	50.25	46.38	+13	−7	64.90	50.33	+12	+6	14.39	58.11	−2	+8
29	35.23	47.02	+4	−9	50.76	46.44	+16	−4	65.31	50.53	+7	+8	14.59	58.42	−7	+6
30	35.74	46.93	+10	−8	51.28	46.50	+16	0	65.71	50.74	+1	+8	14.79	58.72	−10	+3
31	36.24	46.84	+14	−6	51.79	46.56	+14	+4	66.11	50.95	−4	+7	14.98	59.04	−12	0
32					52.30	46.63	+10	+7					15.16	59.35	−12	−4

δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 7′ 40″	19.957	+19.932	+87° 7′ 50″	19.976	+19.951
50	19.976	+19.951	60	19.995	+19.970

$\alpha_{1945.0} = 7^h\ 15^m\ 29^s.63$ $\delta_{1945.0} = +87°\ 8'\ 7''.60$

Ne) 1 Hev. Draconis 4^m58

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in		Februar AR.	Februar Dekl.	Februar ☾ Glieder in		März AR.	März Dekl.	März ☾ Glieder in		April AR.	April Dekl.	April ☾ Glieder in	
	$9^h 29^m$	+81° 34′	0.01 s	0.01″	$9^h 29^m$	+81° 34′	0.01 s	0.01″	$9^h 29^m$	+81° 34′	0.01 s	0.01″	$9^h 29^m$	+81° 34′	0.01 s	0.01″
	s	″			s	″			s	″			s	″		
1	27.53	8.80	+3	−9	30.59	16.42	+4	+2	30.93	25.37	+2	+7	28.74	33.48	−5	+6
2	27.67	8.98	+4	−7	30.64	16.72	+3	+5	30.90	25.67	0	+8	28.64	33.68	−6	+3
3	27.80	9.17	+5	−4	30.69	17.02	+1	+8	30.86	25.97	−2	+9	28.54	33.88	−6	0
4	27.93	9.36	+5	0	30.74	17.31	−1	+9	30.82	26.27	−4	+8	28.43	34.07	−5	−3
5	28.06	9.56	+3	+3	30.79	17.62	−3	+9	30.78	26.57	−5	+5	28.32	34.26	−3	−6
6	28.19	9.76	+2	+6	30.83	17.92	−5	+7	30.74	26.87	−6	+2	28.21	34.45	0	−7
7	28.32	9.97	0	+8	30.87	18.22	−6	+4	30.69	27.16	−5	−2	28.10	34.62	+2	−6
8	28.44	10.18	−2	+9	30.91	18.53	−6	0	30.64	27.45	−4	−5	27.99	34.80	+3	−3
9	28.56	10.40	−4	+8	30.94	18.84	−5	−3	30.59	27.74	−2	−7	27.88	34.97	+4	+1
10	28.68	10.62	−5	+6	30.97	19.14	−3	−6	30.53	28.02	+1	−7	27.76	35.13	+4	+5
11	28.79	10.85	−6	+2	31.00	19.46	0	−8	30.47	28.30	+3	−5	27.64	35.29	+2	+8
12	28.90	11.08	−5	−2	{31.02 / 31.04}	19.77 / 20.08	+2 / +4	−7 / −4}	30.41	28.58	+4	−2	27.52	35.44	0	+9
13	29.01	11.32	−4	−5	31.06	20.40	+5	−1	30.35	28.86	+4	+2	27.40	35.59	−2	+8
14	29.12	11.56	−2	−7	31.08	20.71	+4	+3	30.29	29.14	+3	+5	27.28	35.73	−3	+4
15	29.22	11.80	+1	−8	31.09	21.03	+3	+6	30.22	29.41	+2	+8	27.17	35.87	−4	0
16	29.32	12.05	+3	−6	31.10	21.34	+1	+8	30.15	29.68	0	+8	27.05	36.00	−3	−4
17	29.42	12.30	+4	−3	31.10	21.65	−1	+7	30.08	29.94	−2	+6	26.92	36.13	−1	−8
18	29.52	12.55	+4	+1	31.11	21.96	−3	+4	30.01	30.20	−3	+2	26.80	36.25	+1	−10
19	29.61	12.81	+3	+4	31.10	22.28	−3	+1	29.93	30.46	−3	−2	26.68	36.36	+3	−10
20	29.70	13.07	+2	+7	31.10	22.59	−3	−3	29.85	30.72	−2	−6	26.55	36.47	+4	−9
21	29.79	13.33	0	+8	31.09	22.90	−2	−7	29.77	30.97	0	−9	26.43	36.57	+5	−6
22	29.88	13.60	−2	+7	31.08	23.22	0	−9	29.69	31.22	+1	−10	26.30	36.67	+5	−2
23	29.96	13.87	−3	+4	31.07	23.53	+2	−9	29.60	31.46	+3	−9	26.18	36.76	+4	+1
24	30.04	14.14	−3	0	31.06	23.84	+3	−8	29.51	31.70	+4	−7	26.05	36.85	+3	+4
25	30.12	14.42	−3	−4	31.04	24.15	+4	−6	29.42	31.94	+5	−4	25.93	36.94	+1	+7
26	30.20	14.70	−1	−7	31.02	24.46	+5	−3	29.33	32.17	+5	−1	25.80	37.01	−1	+8
27	30.27	14.98	0	−9	30.99	24.76	+4	+1	29.24	32.40	+4	+3	25.67	37.08	−3	+8
28	30.34	15.26	+2	−9	30.97	25.07	+3	+4	29.14	32.62	+2	+6	25.55	37.15	−4	+6
29	30.41	15.55	+4	−7	30.93	25.37	+2	+7	29.05	32.84	0	+8	25.42	37.21	−5	+4
30	30.47	15.84	+5	−5					28.95	33.06	−1	+8	25.28	37.26	−5	+1
31	30.53	16.13	+5	−1					28.85	33.27	−3	+8	25.15	37.31	−5	−3
32	30.59	16.42	+4	+2					28.74	33.48	−5	+6				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 34′ 0″	6.819	+6.745	+81° 34′ 10″	6.821	+6.747	+81° 34′ 30″	6.825	+6.752
10	6.821	+6.747	20	6.823	+6.749	40	6.827	+6.754

$\alpha_{1945.0} = 9^h\ 29^m\ 24^s\!.66$ $\delta_{1945.0} = +81°\ 34'\ 19''\!.82$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis 4^m58

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in		Juni AR.	Juni Dekl.	Juni ☾ Glieder in		Juli AR.	Juli Dekl.	Juli ☾ Glieder in		August AR.	August Dekl.	August ☾ Glieder in	
	$9^h 29^m$	+81° 34′	$0^s.01$	$0''.01$	$9^h 29^m$	+81° 34′	$0^s.01$	$0''.01$	$9^h 29^m$	+81° 34′	$0^s.01$	$0''.01$	$9^h 29^m$	+81° 34′	$0^s.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	25.15	37.31	−5	−3	21.32	36.00	+2	−5	18.70	30.16	+4	+4	17.82	20.94	−3	+7
2	25.02	37.35	−3	−5	21.21	35.87	+3	−2	18.64	29.90	+2	+7	17.83	20.61	−4	+4
3	24.89	37.39	−1	−7	21.10	35.74	+4	+2	18.58	29.64	0	+9	17.83	20.29	−4	−1
4	24.76	37.42	+1	−6	20.99	35.60	+3	+6	18.52	29.38	−2	+9	17.84	19.96	−3	−5
5	24.63	37.44	+3	−4	20.89	35.46	+1	+8	18.46	29.11	−3	+6	17.86	19.62	−1	−8
6	24.50	37.46	+4	−1	20.78	35.31	0	+9	18.41	28.84	−4	+3	17.87	19.29	+1	−10
7	24.37	37.48	+4	+3	20.68	35.16	−2	+8	18.36	28.57	−4	−2	17.89	18.96	+3	−9
8	24.24	37.49	+3	+7	20.58	35.00	−4	+5	18.31	28.29	−2	−6	17.91	18.62	+4	−7
9	24.11	37.49	+1	+9	20.48	34.83	−4	0	18.27	28.01	0	−9	17.93	18.29	+5	−4
10	23.99	37.49	−1	+9	20.38	34.66	−3	−4	18.23	27.73	+2	−10	17.96	17.95	+5	0
11	23.86	37.48	−3	+7	20.29	34.49	−1	−8	18.19	27.44	+4	−9	17.98	17.61	+4	+3
12	23.73	37.46	−4	+3	20.19	34.31	+1	−10	18.15	27.15	+5	−6	18.01	17.26	+3	+6
13	23.60	37.44	−4	−2	20.10	34.13	+3	−10	18.11	26.87	+5	−3	18.04	16.92	+1	+8
14	23.47	37.42	−2	−7	20.00	33.95	+4	−8	18.07	26.57	+5	+1	*)18.07	16.58	−2	+8
15	23.34	37.38	0	−9	19.91	33.76	+5	−5	18.04	26.28	+4	+4	18.11	16.24	−3	+7
16	23.22	37.35	+2	−11	19.82	33.57	+5	−1	18.01	25.98	+2	+7	18.14	15.90	−5	+5
17	23.09	37.30	+4	−10	19.73	33.37	+4	+2	17.98	25.68	0	+8	18.18	15.57	−6	+2
18	22.97	37.25	+5	−7	19.65	33.16	+3	+5	17.96	25.38	−2	+8	18.23	15.23	−5	−1
19	22.84	37.20	+5	−4	19.56	32.96	+1	+7	17.94	25.08	−4	+7	18.27	14.89	−4	−4
20	22.72	37.14	+5	0	19.48	32.75	−1	+8	17.92	24.77	−5	+4	18.32	14.56	−2	−6
21	22.60	37.07	+4	+3	19.40	32.53	−3	+7	17.90	24.46	−5	+1	18.37	14.22	0	−7
22	22.48	37.00	+2	+6	19.32	32.31	−4	+5	17.88	24.15	−5	−3	18.41	13.88	+2	−6
23	22.36	36.93	0	+8	19.24	32.09	−5	+3	17.86	23.84	−3	−6	18.47	13.54	+4	−3
24	22.24	36.85	−2	+8	19.17	31.86	−5	−1	17.85	23.52	−1	−7	18.52	13.20	+4	0
25	22.12	36.76	−4	+7	19.10	31.63	−4	−4	17.84	23.21	+1	−7	18.58	12.87	+4	+4
26	22.00	36.67	−5	+5	19.03	31.40	−3	−6	17.83	22.89	+3	−5	18.64	12.53	+2	+7
27	21.89	36.57	−5	+1	18.96	31.16	0	−7	17.82	22.57	+4	−2	18.70	12.19	0	+8
28	21.77	36.47	−5	−2	18.89	30.92	+2	−7	17.82	22.25	+4	+2	18.76	11.85	−2	+8
29	21.66	36.36	−4	−5	18.82	30.67	+3	−4	17.81	21.92	+3	+6	18.83	11.52	−3	+5
30	21.54	36.25	−2	−7	18.76	30.42	+4	0	17.82	21.60	+1	+8	18.90	11.18	−4	+1
31	21.43	36.13	0	−7	18.70	30.16	+4	+4	17.82	21.27	−1	+9	18.97	10.84	−3	−4
32	21.32	36.00	+2	−5					17.82	20.94	−3	+7	19.04	10.51	−2	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 34′ 10″	6.821	+6.747	+81° 34′ 20″	6.823	+6.749	+81° 34′ 30″	6.825	+6.752
20	6.823	+6.749	30	6.825	+6.752	40	6.827	+6.754

$\alpha_{1945.0} = 9^h\ 29^m\ 24^s.66$ $\delta_{1945.0} = +81°\ 34'\ 19''.82$

*) Tag der doppelten unteren Kulmination: Aug. 14.

Ne) **1 Hev. Draconis** $4^{m}.58$

Tag	September AR.	Dekl.	☾ Glieder in		Oktober AR.	Dekl.	☾ Glieder in		November AR.	Dekl.	☾ Glieder in		Dezember AR.	Dekl.	☾ Glieder in	
	$9^h\,29^m$	$+81°\,34'$	$0^s.01$	$0''.01$	$9^h\,29^m$	$+81°\,33'$	$0^s.01$	$0''.01$	$9^h\,29^m$	$+81°\,33'$	$0^s.01$	$0''.01$	$9^h\,29^m$	$+81°\,33'$	$0^s.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	19.04	10.51	−2	−7	22.11	61.20	+4	−10	26.80	54.36	+5	+2	32.07	52.04	0	+7
2	19.11	10.18	0	−10	22.24	60.93	+5	−7	26.97	54.20	+3	+5	32.25	52.05	−2	+7
3	19.18	9.84	+2	−10	22.37	60.65	+6	−4	27.14	54.06	+1	+7	32.42	52.07	−4	+5
4	19.26	9.51	+4	−9	22.51	60.39	+5	0	27.31	53.91	−1	+7	32.60	52.09	−5	+3
5	19.34	9.18	+5	−6	22.64	60.12	+4	+4	27.48	53.77	−3	+7	32.77	52.11	−5	0
6	19.42	8.85	+5	−2	22.78	59.86	+2	+6	27.65	53.64	−4	+5	32.94	52.15	−4	−3
7	19.51	8.52	+5	+2	22.92	59.60	0	+8	27.83	53.51	−5	+2	33.11	52.19	−3	−5
8	19.60	8.20	+3	+5	23.06	59.35	−2	+8	28.00	53.39	−5	−1	33.28	52.23	−1	−7
9	19.69	7.87	+1	+7	23.20	59.10	−3	+7	28.17	53.27	−4	−4	33.45	52.28	0	−7
10	19.78	7.55	−1	+8	23.34	58.85	−5	+5	28.34	53.15	−3	−6	33.62	52.33	+2	−5
11	19.87	7.22	−3	+8	23.48	58.60	−6	+2	28.52	53.05	−1	−7	33.79	52.40	+3	−1
12	19.97	6.90	−4	+6	23.63	58.36	−5	−1	28.69	52.94	+1	−6	33.96	52.46	+3	+3
13	20.06	6.58	−5	+4	23.77	58.12	−4	−4	28.87	52.85	+3	−3	34.12	52.54	+3	+7
14	20.16	6.27	−5	+1	23.92	57.88	−2	−6	29.04	52.76	+4	0	34.29	52.62	+1	+10
15	20.26	5.95	−5	−3	24.07	57.65	0	−7	29.22	52.67	+3	+5	34.45	52.70	−1	+11
16	20.36	5.64	−3	−6	24.22	57.42	+2	−5	29.40	52.59	+2	+8	34.62	52.79	−3	+9
17	20.47	5.33	−1	−7	24.38	57.20	+3	−2	29.58	52.52	0	+10	34.78	52.89	−5	+5
18	20.57	5.02	+1	−6	24.53	56.98	+4	+2	29.76	52.45	−2	+10	34.94	52.99	−5	0
19	20.68	4.71	+3	−4	24.69	56.77	+3	+6	29.94	52.38	−4	+7	35.10	53.09	−4	−4
20	20.79	4.40	+4	−1	24.85	56.56	+1	+9	30.12	52.32	−4	+3	35.26	53.20	−2	−8
21	20.90	4.10	+4	+3	25.00	56.35	−1	+9	30.30	52.27	−4	−2	35.42	53.32	+1	−11
22	21.01	3.80	+3	+7	25.16	56.15	−3	+8	30.48	52.22	−2	−7	35.57	53.44	+3	−10
23	21.13	3.50	+1	+9	25.32	55.95	−4	+4	30.65	52.18	0	−10	35.73	53.57	+5	−8
24	21.25	3.20	−1	+9	25.48	55.76	−4	0	30.83	52.14	+2	−11	35.88	53.71	+6	−5
25	21.37	2.91	−3	+6	25.64	55.57	−3	−5	31.01	52.11	+4	−10	36.03	53.85	+6	−1
26	21.49	2.62	−4	+2	25.81	55.38	−1	−9	31.19	52.08	+6	−7	36.18	53.99	+5	+3
27	21.61	2.33	−4	−2	25.97	55.20	+1	−11	31.36	52.06	+6	−3	36.33	54.14	+3	+6
28	21.73	2.04	−2	−6	26.13	55.02	+3	−11	31.54	52.05	+5	+1	36.47	54.30	+1	+7
29	21.86	1.76	0	−9	26.30	54.85	+5	−9	31.72	52.04	+4	+4	36.62	54.46	−1	+7
30	21.99	1.48	+2	−10	26.47	54.68	+6	−5	31.90	52.04	+2	+6	36.76	54.63	−3	+6
31	22.11	1.20	+4	−10	26.63	54.52	+6	−1	32.07	52.04	0	+7	36.90	54.80	−4	+4
32					26.80	54.36	+5	+2					37.04	54.97	−5	+1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 33′ 50″	6.816	+6.743	+81° 34′ 0″	6.819	+6.745	+81° 34′ 10″	6.821	+6.747
60	6.819	+6.745	10	6.821	+6.747	20	6.823	+6.749

$\alpha_{1945.0} = 9^h\ 29^m\ 24^s.66$ $\delta_{1945.0} = +81°\ 34'\ 19''.82$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$
1	$35^s.36$	$10''.92$	+2	−9	$39^s.85$	$17''.00$	+5	0
2	35.54	11.03	+4	−8	39.95	17.27	+4	+4
3	35.71	11.16	+5	−5	40.05	17.54	+2	+7
4	35.89	11.29	+5	−2	40.14	17.81	0	+9
5	36.06	11.42	+4	+2	40.24	18.08	−3	+9
6	36.24	11.56	+3	+5	40.32	18.36	−5	+8
7	36.41	11.71	+1	+8	40.41	18.64	−6	+6
8	36.57	11.86	−1	+9	40.49	18.93	−6	+2
9	36.74	12.02	−3	+9	40.57	19.21	−6	−1
10	36.90	12.18	−5	+7	40.64	19.51	−4	−5
11	37.06	12.35	−6	+4	40.71	19.80	−1	−7
12	37.22	12.53	−6	0	40.78	20.10	+1	−7
13	37.37	12.71	−5	−3	40.84	20.40	+4	−5
14	37.53	12.89	−3	−6	40.91	20.70	+5	−2
15	37.68	13.08	0	−7	40.96	21.00	+5	+1
16	37.83	13.27	+2	−7	41.02	21.30	+4	+5
17	37.97	13.47	+4	−4	41.07	21.61	+2	+7
18	38.12	13.68	+5	−1	41.12	21.91	0	+7
19	38.26	13.88	+5	+3	41.16	22.22	−2	+5
20	38.40	14.10	+3	+6	41.20	22.53	−4	+2
21	38.54	14.32	+1	+7	41.24	22.85	−4	−2
22	38.67	14.54	−1	+7	41.27	23.16	−3	−6
23	38.80	14.77	−3	+5	41.30	23.48	−1	−8
24	38.93	15.00	−4	+1	41.33	23.79	+1	−9
25	39.06	15.24	−4	−3	41.35	24.11	+3	−9
26	39.18	15.47	−3	−6	{41.37 {41.38	24.42 24.74	+4 +5	−7} −4}
27	39.30	15.72	−1	−9	41.40	25.05	+5	−1
28	39.42	15.97	+1	−9	41.40	25.37	+4	+2
29	39.53	16.22	+3	−8	41.41	25.68	+3	+5
30	39.64	16.47	+4	−6	-			
31	39.75	16.74	+5	−3				
32	39.85	17.00	+5	0				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$
1	$41^s.41$	$25''.68$	+3	+ 5	$39^s.94$	$34''.82$	−5	+ 8
2	41.41	26.00	+1	+ 8	39.85	35.07	−6	+ 5
3	41.41	26.31	−2	+ 9	39.76	35.32	−6	+ 2
4	41.40	26.63	−4	+ 9	39.66	35.57	−6	− 1
5	41.40	26.94	−5	+ 7	39.56	35.81	−4	− 4
6	41.38	27.26	−6	+ 4	39.45	36.05	−1	− 6
7	41.37	27.57	−6	+ 1	39.35	36.28	+1	− 6
8	41.35	27.88	−5	− 3	39.24	36.51	+3	− 4
9	41.33	28.20	−3	− 5	39.13	36.74	+5	− 1
10	41.30	28.51	0	− 7	39.02	36.96	+5	+ 3
11	41.27	28.81	+2	− 6	38.90	37.18	+3	+ 6
12	41.24	29.12	+4	− 3	38.78	37.39	+1	+ 8
13	41.20	29.43	+5	0	38.66	37.60	−1	+ 8
14	41.16	29.74	+5	+ 4	38.54	37.80	−3	+ 5
15	41.12	30.04	+3	+ 6	38.42	38.00	−4	+ 1
16	41.08	30.34	+1	+ 7	38.29	38.20	−4	− 3
17	41.03	30.64	−2	+ 6	38.17	38.38	−3	− 7
18	40.98	30.94	−3	+ 3	38.04	38.57	0	−10
19	40.92	31.23	−4	− 1	37.91	38.75	+2	−11
20	40.87	31.52	−3	− 5	37.78	38.92	+4	−10
21	40.80	31.81	−2	− 8	37.65	39.09	+5	− 7
22	40.74	32.10	0	−10	37.51	39.25	+5	− 4
23	40.67	32.38	+2	−10	37.37	39.41	+5	0
24	40.60	32.66	+4	− 8	37.24	39.57	+4	+ 3
25	40.53	32.95	+5	− 6	37.10	39.72	+2	+ 6
26	40.45	33.22	+5	− 2	36.96	39.86	0	+ 8
27	40.37	33.50	+5	+ 1	36.82	40.00	−2	+ 8
28	40.29	33.77	+3	+ 4	36.68	40.13	−4	+ 8
29	40.21	34.04	+1	+ 7	36.54	40.26	−5	+ 6
30	40.12	34.30	−1	+ 8	36.40	40.38	−6	+ 3
31	40.04	34.56	−3	+ 9	36.25	40.49	−6	0
32	39.94	34.82	−5	+ 8				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 50′ 10″	8.019	+7.956	+82° 50′ 20″	8.022	+7.959	+82° 50′ 40″	8.028	+7.966
20	8.022	+7.959	30	8.025	+7.962	50	8.031	+7.969

$\alpha_{1945.0} = 10^h\ 24^m\ 33^s.34$ $\delta_{1945.0} = +82°\ 50'\ 23''.60$

Nf) 30 Hev. Camelopardalis $5^m\!.34$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$	10^h24^m	+82° 50′	in $0^s.01$	in $0''.01$
1	36.25	40.49	−6	0	31.62	41.28	+2	−6	27.75	37.03	+5	+2	25.45	28.60	−2	+8
2	36.11	40.60	−5	−3	31.47	41.22	+3	−4	27.64	36.81	+4	+6	25.41	28.28	−4	+5
3	35.97	40.71	−2	−5	31.33	41.15	+4	0	27.54	36.59	+1	+8	25.37	27.96	−5	+1
4	35.82	40.81	0	−6	31.18	41.07	+4	+4	27.43	36.37	−1	+9	25.34	27.64	−4	−3
5	35.67	40.90	+2	−5	31.04	40.99	+3	+7	27.33	36.14	−3	+7	25.31	27.31	−2	−7
6	35.53	40.99	+4	−2	30.90	40.90	+1	+9	27.24	35.91	−4	+4	25.28	26.98	0	−9
7	35.38	41.07	+5	+1	30.75	40.81	−2	+9	27.14	35.67	−5	0	25.26	26.65	+2	−10
8	35.23	41.15	+4	+5	30.61	40.71	−4	+6	27.05	35.43	−4	−5	25.24	26.31	+4	−9
9	35.08	41.22	+2	+8	30.48	40.61	−5	+2	26.96	35.18	−2	−8	25.22	25.97	+5	−6
10	34.93	41.29	0	+9	30.34	40.50	−4	−3	26.87	34.93	+1	−10	25.20	25.63	+6	−3
11	34.77	41.35	−2	+7	30.20	40.38	−3	−7	26.79	34.68	+3	−10	25.18	25.29	+5	+1
12	34.62	41.40	−4	+4	30.06	40.26	−1	−10	26.70	34.42	+5	−8	25.17	24.95	+4	+4
13	34.47	41.45	−4	0	29.92	40.13	+2	−11	26.62	34.16	+6	−5	25.16	24.61	+2	+7
14	34.32	41.49	−3	−5	29.79	40.00	+4	−10	26.53	33.90	+6	−1	25.15	24.26	−1	+8
15	34.16	41.53	−2	−9	29.66	39.87	+5	−7	26.45	33.63	+5	+2	25.14	23.92	−3	+8
16	34.01	41.56	+1	−11	29.53	39.73	+6	−4	26.38	33.36	+3	+5	25.14	23.57	−5	+7
17	33.86	41.59	+3	−11	29.40	39.58	+5	0	26.30	33.09	+1	+7	25.14	23.22	−6	+5
18	33.71	41.61	+5	−9	29.27	39.43	+4	+4	26.23	32.81	−1	+8	25.14	22.87	−6	+1
19	33.56	41.62	+6	−6	29.14	39.28	+2	+6	26.16	32.53	−4	+8	25.14	22.52	−5	−2
20	33.41	41.63	+6	−2	29.02	39.12	0	+8	26.09	32.25	−5	+6	25.15	22.16	−3	−5
21	33.26	41.63	+5	+2	28.90	38.95	−2	+8	26.03	31.96	−6	+3	25.16	21.81	−1	−7
22	33.11	41.63	+3	+5	28.78	38.78	−4	+7	25.96	31.67	−6	0	25.17	21.45	+1	−7
23	32.96	41.62	+1	+7	28.65	38.61	−5	+5	25.90	31.38	−4	−4	25.18	21.10	+4	−5
24	32.80	41.61	−1	+8	28.54	38.43	−6	+1	25.84	31.08	−2	−6	25.20	20.75	+5	−1
25	32.65	41.59	−3	+8	28.42	38.24	−5	−2	25.78	30.79	0	−7	25.22	20.39	+5	+3
26	32.50	41.56	−5	+6	28.30	38.05	−4	−5	25.73	30.48	+2	−6	25.24	20.03	+3	+6
27	32.35	41.53	−6	+4	28.19	37.86	−1	−6	25.67	30.18	+4	−3	25.27	19.67	+1	+8
28	32.20	41.49	−6	0	28.08	37.66	+1	−7	25.62	29.87	+5	0	*)25.30	19.31	−1	+8
29	32.06	41.45	−5	−3	27.96	37.45	+3	−5	25.58	29.56	+4	+4	25.33	18.95	−3	+6
30	31.91	41.40	−3	−5	27.86	37.24	+4	−2	25.53	29.24	+3	+7	25.36	18.59	−4	+2
31	31.76	41.34	−1	−6	27.75	37.03	+5	+2	25.49	28.92	0	+8	25.39	18.23	−4	−2
32	31.62	41.28	+2	−6					25.45	28.60	−2	+8	25.43	17.87	−3	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 50′ 10″	8.019	+7.956	+82° 50′ 20″	8.022	+7.959	+82° 50′ 40″	8.028	+7.966
20	8.022	+7.959	30	8.025	+7.962	50	8.031	+7.969

$\alpha_{1945.0} = 10^h\ 24^m\ 33^s\!.34$ $\delta_{1945.0} = +82^\circ\ 50'\ 23''\!.60$

*) Tag der doppelten unteren Kulmination: Aug. 28.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^{m}.34$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	$10^h 24^m$	+82° 50′	$0^s.01$	$0''.01$	$10^h 24^m$	+82° 49′	$0^s.01$	$0''.01$	$10^h 24^m$	+82° 49′	$0^s.01$	$0''.01$	$10^h 24^m$	+82° 49′	$0^s.01$	$0''.01$
1	25.43	17.87	−3	−6	27.71	67.30	+3	−10	32.18	58.33	+6	0	37.93	53.55	+1	+7
2	25.47	17.51	−1	−9	27.82	66.96	+5	−9	32.36	58.10	+4	+3	38.13	53.48	−1	+7
3	25.51	17.15	+1	−10	27.93	66.63	+6	−5	32.53	57.88	+2	+6	38.33	53.41	−3	+6
4	25.56	16.79	+3	−9	28.05	66.31	+6	−2	32.71	57.65	0	+7	38.54	53.35	−5	+5
5	25.60	16.43	+5	−7	28.17	65.98	+5	+2	32.89	57.44	−2	+7	38.74	53.29	−5	+2
6	25.65	16.07	+6	−4	28.29	65.66	+3	+5	33.07	57.23	−4	+6	38.94	53.25	−5	−1
7	25.71	15.71	+5	0	28.42	65.34	+1	+7	33.25	57.02	−5	+4	39.14	53.20	−4	−4
8	25.76	15.35	+4	+3	28.55	65.02	−1	+8	33.44	56.82	−6	+2	39.34	53.17	−3	−6
9	25.82	14.99	+2	+6	28.68	64.71	−3	+8	33.63	56.62	−6	−1	39.55	53.14	0	−6
10	25.88	14.63	0	+8	28.81	64.40	−5	+6	33.81	56.43	−4	−4	39.75	53.11	+2	−5
11	25.94	14.27	−2	+8	28.94	64.08	−6	+4	34.00	56.24	−2	−6	39.95	53.09	+4	−3
12	26.00	13.91	−4	+8	29.07	63.78	−6	+1	34.19	56.05	0	−6	40.16	53.07	+4	+1
13	26.07	13.55	−5	+6	29.21	63.47	−5	−2	34.38	55.87	+3	−4	40.36	53.07	+4	+5
14	26.14	13.19	−6	+3	29.35	63.17	−3	−5	34.57	55.70	+4	−1	40.56	53.07	+2	+9
15	26.21	12.83	−6	0	29.49	62.87	−1	−6	34.76	55.53	+4	+3	40.76	53.07	0	+10
16	26.29	12.48	−5	−4	29.63	62.58	+1	−5	34.95	55.36	+3	+7	40.96	53.08	−3	+9
17	26.37	12.13	−2	−6	29.78	62.29	+4	−3	35.15	55.20	+1	+9	41.15	53.10	−4	+7
18	26.45	11.77	0	−6	29.93	62.00	+5	0	35.34	55.05	−1	+10	41.35	53.13	−5	+2
19	26.53	11.42	+3	−5	30.08	61.72	+4	+4	35.53	54.90	−3	+8	41.55	53.16	−5	−3
20	26.61	11.07	+4	−2	30.23	61.43	+3	+7	35.73	54.76	−5	+4	41.75	53.19	−3	−7
21	26.70	10.71	+5	+1	30.38	61.15	+1	+9	35.92	54.62	−5	−1	41.95	53.23	0	−10
22	26.79	10.37	+4	+5	30.54	60.88	−2	+8	36.12	54.49	−4	−6	42.14	53.28	+2	−11
23	26.88	10.02	+2	+8	30.69	60.60	−4	+5	36.32	54.36	−2	−9	42.34	53.34	+5	−10
24	26.98	9.67	0	+8	30.85	60.33	−5	+1	36.51	54.24	+1	−11	42.53	53.40	+6	−7
25	27.07	9.33	−2	+7	31.01	60.07	−4	−3	36.71	54.13	+4	−11	42.72	53.47	+6	−3
26	27.17	8.99	−4	+4	31.17	59.81	−2	−8	36.92	54.02	+6	−9	42.91	53.54	+6	+1
27	27.28	8.64	−4	−1	31.34	59.56	0	−11	37.12	53.92	+6	−5	43.10	53.62	+4	+4
28	27.38	8.31	−3	−5	31.50	59.31	+2	−11	37.32	53.82	+6	−2	43.28	53.71	+2	+6
29	27.49	7.97	−2	−9	31.67	59.06	+4	−10	37.52	53.72	+5	+2	43.47	53.80	0	+7
30	27.60	7.63	+1	−10	31.84	58.81	+6	−7	37.73	53.64	+3	+5	43.65	53.90	−3	+7
31	27.71	7.30	+3	−10	32.01	58.57	+6	−4	37.93	53.55	+1	+7	43.83	54.00	−4	+5
32					32.18	58.33	+6	0					44.01	54.11	−5	+3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 49′ 50″	8.013	+7.950	+82° 50′ 0″	8.016	+7.953	+82° 50′ 10″	8.019	+7.956
60	8.016	+7.953	10	8.019	+7.956	20	8.022	+7.959

$\alpha_{1945.0} = 10^h\ 24^m\ 33^s.34$ $\delta_{1945.0} = +82°\ 50'\ 23''.60$

Ng) ε Ursae minoris $4^m.40$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	16^h51^m	+82° 7′	in $0.^s01$	in $0.''01$	16^h51^m	+82° 7′	in $0.^s01$	in $0.''01$	16^h51^m	+82° 7′	in $0.^s01$	in $0.''01$	16^h51^m	+82° 7′	in $0.^s01$	in $0.''01$
	s	"			s	"			s	"			s	"		
1	24.24	46.93	−3	− 1	27.33	37.90	0	− 8	31.62	34.13	+1	− 8	36.47	35.88	+3	+ 2
2	24.30	46.58	−2	− 4	27.47	37.69	+2	− 7	31.79	34.09	+2	− 6	36.60	36.04	+2	+ 6
3	24.36	46.24	−1	− 7	27.61	37.48	+2	− 5	31.95	34.06	+3	− 3	36.74	36.20	+1	+ 9
4	24.42	45.90	0	− 8	27.74	37.27	+3	− 2	32.11	34.03	+3	0	36.88	36.36	0	+10
5	24.49	45.56	+1	− 8	27.89	37.07	+3	+ 2	32.28	34.01	+3	+ 4	37.01	36.53	−1	+10
6	24.56	45.23	+2	− 7	28.03	36.88	+3	+ 6	32.44	33.99	+2	+ 7	37.14	36.71	−2	+ 7
7	24.63	44.89	+3	− 4	28.17	36.69	+2	+ 9	32.61	33.99	+1	+10	37.27	36.89	−2	+ 3
8	24.71	44.57	+3	0	28.32	36.51	0	+10	32.77	33.99	0	+10	37.40	37.07	−2	− 1
9	24.79	44.24	+3	+ 3	28.47	36.33	−1	+10	32.93	33.99	−1	+ 9	37.53	37.26	−1	− 5
10	24.88	43.92	+2	+ 7	28.61	36.16	−2	+ 7	33.10	34.00	−2	+ 6	37.66	37.46	0	− 8
11	24.96	43.60	+1	+ 9	28.77	36.00	−2	+ 4	33.26	34.02	−2	+ 1	37.78	37.66	+1	− 9
12	25.06	43.29	0	+10	28.92	35.84	−2	− 1	33.41	34.05	−2	− 3	37.90	37.86	+2	− 7
13	25.15	42.98	−1	+ 9	29.07	35.69	−2	− 5	33.57	34.08	−1	− 7	38.02	38.07	+3	− 4
14	25.24	42.67	−2	+ 6	29.22	35.54	0	− 8	33.73	34.12	0	− 9	38.14	38.28	+2	0
15	25.34	42.37	−2	+ 2	29.38	35.40	+1	− 9	33.89	34.16	+1	− 8	38.26	38.50	+1	+ 4
16	25.44	42.07	−2	− 3	29.53	35.27	+2	− 8	34.05	34.21	+2	− 6	38.37	38.72	0	+ 7
17	25.54	41.78	−1	− 6	29.69	35.14	+3	− 5	34.21	34.27	+2	− 2	38.48	38.95	−1	+ 7
18	25.64	41.49	0	− 8	29.84	35.02	+2	− 1	34.37	34.34	+2	+ 2	38.59	39.18	−3	+ 6
19	25.75	41.20	+1	− 8	30.00	34.91	+1	+ 3	34.52	34.41	+1	+ 5	38.69	39.42	−3	+ 4
20	25.86	40.92	+2	− 6	30.16	34.80	0	+ 6	34.68	34.48	−1	+ 7	38.80	39.66	−4	0
21	25.97	40.64	+2	− 3	30.32	34.70	−1	+ 7	34.83	34.57	−2	+ 7	38.90	39.90	−3	− 4
22	26.08	40.37	+2	+ 1	30.48	34.61	−2	+ 7	34.99	34.66	−3	+ 5	39.00	40.15	−2	− 7
23	26.20	40.10	+1	+ 4	30.64	34.52	−3	+ 4	35.14	34.76	−3	+ 2	39.09	40.40	−1	− 8
24	26.31	39.83	0	+ 7	30.81	34.44	−3	+ 1	35.29	34.86	−3	− 1	39.19	40.65	0	− 8
25	26.43	39.57	−1	+ 7	30.97	34.37	−3	− 2	35.44	34.97	−3	− 4	39.28	40.91	+1	− 7
26	26.55	39.32	−2	+ 6	31.14	34.30	−2	− 5	35.60	35.08	−2	− 7	39.37	41.17	+2	− 5
27	26.68	39.07	−3	+ 3	31.30	34.24	−1	− 7	35.74	35.20	0	− 8	39.46	41.43	+3	− 2
28	26.80	38.82	−3	0	31.46	34.18	0	− 8	35.89	35.33	+1	− 8	39.54	41.70	+3	+ 1
29	26.93	38.58	−3	− 3	31.62	34.13	+1	− 8	36.04	35.46	+2	− 7	39.63	41.97	+2	+ 4
30	27.06	38.35	−2	− 6					36.18	35.59	+2	− 4	39.71	42.25	+2	+ 8
31	27.19	38.12	−1	− 8					36.32	35.74	+3	− 1	39.78	42.52	+1	+10
32	27.33	37.90	0	− 8					36.47	35.88	+3	+ 2				

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 7′ 30″	7.299	+7.230	+82° 7′ 40″	7.301	+7.232
40	7.301	+7.232	50	7.304	+7.235

$\alpha_{1945.0} = 16^h\ 51^m\ 31.^s65$ $\delta_{1945.0} = +82°\ 7'\ 51.''16$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$16^{h}51^{m}$	+82° 7′	in $0.^{s}01$	in $0.''01$	$16^{h}51^{m}$	+82° 7′	in $0.^{s}01$	in $0.''01$	$16^{h}51^{m}$	+82° 8′	in $0.^{s}01$	in $0.''01$	$16^{h}51^{m}$	+82° 8′	in $0.^{s}01$	in $0.''01$
	s	″			s	″			s	″			s	″		
1	39.78	42.52	+1	+10	40.84	51.96	−2	+2	39.28	1.03	+1	−9	35.52	7.32	+2	+2
2	39.86	42.81	0	+10	40.83	52.27	−2	−2	39.19	1.29	+2	−8	35.38	7.46	+1	+5
3	39.93	43.09	−1	+8	40.82	52.58	−1	−6	39.10	1.54	+3	−5	35.22	7.60	0	+8
4	40.00	43.37	−2	+5	40.80 40.78	52.90 53.21	0 +2	−8 −8	39.01	1.80	+3	−1	35.07	7.73	−1	+8
5	40.07	43.66	−2	+1	40.76	53.52	+3	−7	38.91	2.04	+2	+3	34.92	7.85	−3	+6
6	40.13	43.95	−1	−3	40.74	53.83	+3	−3	38.81	2.29	+1	+7	34.76	7.97	−3	+3
7	40.19	44.24	0	−7	40.71	54.14	+3	+1	38.71	2.53	−1	+8	34.60	8.08	−3	−1
8	40.25	44.53	+1	−8	40.68	54.44	+2	+5	38.60	2.77	−2	+7	34.45	8.19	−3	−5
9	40.31	44.83	+2	−8	40.65	54.75	0	+7	38.49	3.00	−3	+5	34.28	8.29	−2	−8
10	40.36	45.13	+3	−5	40.62	55.06	−1	+8	38.38	3.23	−3	+1	34.12	8.39	−1	−9
11	40.42	45.43	+3	−1	40.58	55.36	−3	+6	38.27	3.46	−3	−3	33.96	8.49	+1	−9
12	40.46	45.73	+2	+3	40.54	55.66	−3	+3	38.16	3.69	−2	−6	33.80	8.58	+2	−7
13	40.51	46.04	+1	+6	40.50	55.97	−4	0	38.04	3.91	−1	−8	33.64	8.67	+3	−5
14	40.56	46.34	−1	+8	40.45	56.26	−3	−4	37.93	4.12	0	−9	33.47	8.75	+3	−1
15	40.60	46.65	−2	+7	40.40	56.56	−2	−7	37.81	4.34	+1	−8	33.31	8.82	+3	+3
16	40.64	46.96	−3	+5	40.35	56.86	−1	−9	37.69	4.55	+2	−6	33.14	8.90	+2	+6
17	40.67	47.26	−4	+2	40.30	57.15	0	−9	37.57	4.75	+3	−3	32.98	8.96	+1	+9
18	40.70	47.57	−3	−2	40.24	57.44	+1	−8	37.44	4.95	+3	0	32.81	9.02	0	+10
19	40.73	47.88	−3	−6	40.19	57.74	+2	−5	37.32	5.14	+2	+4	32.64	9.08	−1	+9
20	40.76	48.19	−2	−8	40.12	58.02	+3	−2	37.19	5.33	+2	+7	32.47	9.13	−2	+7
21	40.78	48.50	0	−9	40.06	58.31	+3	+2	37.06	5.52	+1	+9	32.30	9.18	−2	+3
22	40.80	48.82	+1	−8	39.99	58.59	+2	+5	36.93	5.71	0	+10	32.13	9.22	−2	−1
23	40.81	49.13	+2	−7	39.93	58.88	+1	+8	36.80	5.89	−1	+8	31.96	9.26	−1	−5
24	40.83	49.45	+2	−4	39.85	59.15	0	+10	36.66	6.06	−2	+5	31.79	9.29	0	−8
25	40.84	49.76	+3	0	39.78	59.43	−1	+9	36.53	6.24	−2	+1	31.62	9.31	+1	−9
26	40.85	50.08	+2	+3	39.70	59.70	−2	+7	36.39	6.41	−2	−3	31.45	9.34	+2	−7
27	40.86	50.39	+2	+6	39.62	59.97	−2	+4	36.25	6.57	−1	−7	31.27	9.35	+3	−4
28	40.86	50.70	+1	+9	39.54	60.24	−2	0	36.11	6.73	0	−8	31.09	9.36	+3	0
29	40.86	51.02	0	+10	39.46	60.51	−1	−4	35.96	6.88	+2	−8	30.92	9.37	+2	+4
30	40.86	51.33	−1	+9	39.37	60.77	0	−7	35.82	7.03	+3	−6	30.74	9.37	0	+7
31	40.85	51.64	−2	+6	39.28	61.03	+1	−9	35.67	7.18	+3	−3	30.57	9.37	−1	+8
32	40.84	51.96	−2	+2					35.52	7.32	+2	+2	30.39	9.36	−2	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 7′ 40″	7.301	+7.232	+82° 7′ 50″	7.304	+7.235	+82° 8′ 0″	7.306	+7.238
50	7.304	+7.235	60	7.306	+7.238	10	7.309	+7.240

$\alpha_{1945.0} = 16^{h}\ 51^{m}\ 31^{s}.65$ $\delta_{1945.0} = +82°\ 7'\ 51''.16$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	16^h51^m	+82° 8′	in 0.01 s	in 0.01 ″	16^h51^m	+82° 7′	in 0.01 s	in 0.01 ″	16^h51^m	+82° 7′	in 0.01 s	in 0.01 ″	16^h51^m	+82° 7′	in 0.01 s	in 0.01 ″
	s	″			s	″			s	″			s	″		
1	30.39	9.36	−2	+7	25.17	66.75	−3	−2	20.67	59.62	0	−9	18.29	49.57	+2	−3
2	30.22	9.34	−3	+4	25.00	66.59	−3	−6	20.56	59.33	+1	−7	18.25	49.21	+2	+1
3	30.04	9.32	−3	0	24.83	66.42	−2	−8	20.44	59.03	+2	−5	18.22	48.84	+2	+4
4	29.86	9.30	−3	−3	24.67	66.25	0	−9	20.33	58.73	+2	−1	*)18.19	48.47	+1	+7
5	29.69	9.27	−2	−7	24.51	66.07	+1	−9	20.22	58.42	+2	+2	18.16	48.10	0	+9
6	29.51	9.23	−1	−8	24.35	65.89	+2	−7	20.11	58.12	+2	+5	18.14	47.73	−1	+9
7	29.33	9.19	0	−9	24.19	65.70	+2	−4	20.01	57.80	+1	+8	18.12	47.36	−1	+8
8	29.16	9.15	+1	−8	24.03	65.51	+3	0	19.91	57.49	0	+9	18.10	46.99	−2	+6
9	28.98	9.10	+2	−6	23.87	65.31	+2	+3	19.81	57.17	−1	+10	18.08	46.62	−2	+2
10	28.80	9.05	+3	−2	23.71	65.11	+2	+7	19.71	56.85	−1	+8	18.07	46.25	−2	−2
11	28.63	8.99	+3	+1	23.55	64.91	+1	+9	19.62	56.53	−2	+4	18.06	45.88	−1	−6
12	28.45	8.92	+2	+5	23.40	64.70	0	+10	19.53	56.20	−2	0	18.05	45.51	+1	−8
13	28.27	8.85	+2	+8	23.25	64.49	−1	+9	19.44	55.87	−1	−4	18.05	45.14	+2	−8
14	28.10	8.78	+1	+10	23.10	64.27	−2	+7	19.35	55.54	0	−7	18.05	44.77	+3	−6
15	27.92	8.70	0	+10	22.95	64.05	−2	+3	19.27	55.21	+1	−9	18.06	44.40	+3	−2
16	27.74	8.61	−1	+8	22.80	63.82	−2	−2	19.18	54.87	+2	−8	18.06	44.03	+3	+2
17	27.57	8.52	−2	+5	22.65	63.58	−1	−5	19.11	54.53	+3	−5	18.08	43.66	+2	+6
18	27.39	8.43	−2	+1	22.51	63.34	+1	−8	19.03	54.19	+3	−1	18.09	43.29	0	+8
19	27.22	8.33	−1	−4	22.37	63.10	+2	−9	18.95	53.85	+2	+4	18.10	42.92	−1	+9
20	27.04	8.23	0	−7	22.23	62.86	+3	−7	18.88	53.50	+1	+7	18.12	42.55	−3	+7
21	26.87	8.12	+1	−9	22.09	62.61	+3	−3	18.81	53.15	−1	+8	18.14	42.18	−4	+3
22	26.69	8.00	+2	−8	21.95	62.36	+3	+1	18.74	52.80	−2	+8	18.17	41.82	−4	−1
23	26.52	7.88	+3	−6	21.82	62.10	+1	+5	18.68	52.45	−3	+5	18.20	41.45	−3	−5
24	26.35	7.76	+3	−2	21.68	61.84	0	+8	18.62	52.09	−4	+1	18.23	41.09	−2	−8
25	26.17	7.63	+2	+3	21.55	61.58	−2	+8	18.57	51.74	−4	−3	18.26	40.73	−1	−10
26	26.00	7.49	+1	+6	21.42	61.31	−3	+6	18.51	51.38	−3	−7	18.30	40.37	+1	−10
27	25.84	7.35	−1	+8	21.29	61.04	−4	+3	18.47	51.02	−2	−9	18.34	40.01	+2	−7
28	25.67	7.21	−2	+7	21.16	60.76	−4	−1	18.42	50.66	0	−10	18.39	39.66	+2	−4
29	25.50	7.06	−3	+5	21.04	60.48	−3	−5	18.37	50.30	+1	−9	18.44	39.30	+2	−1
30	25.33	6.91	−4	+2	20.91	60.20	−2	−8	18.33	49.93	+2	−6	18.48	38.95	+2	+3
31	25.17	6.75	−3	−2	20.79	59.91	−1	−9	18.29	49.57	+2	−3	18.54	38.60	+2	+6
32					20.67	59.62	0	−9					18.59	38.25	+1	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 7′ 30″	7.299	+7.230	+82° 7′ 40″	7.301	+7.232	+82° 8′ 0″	7.306	+7.238
40	7.301	+7.232	50	7.304	+7.235	10	7.309	+7.240

$\alpha_{1945.0} = 16^h\ 51^m\ 31^s.65$ $\delta_{1945.0} = +82°\ 7'\ 51''.16$

*) Tag der doppelten unteren Kulmination: Dez. 4.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nh) δ Ursae minoris 4^m44

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$17^h 49^m$	86° 36′	$0^s.01$	$0''.01$	$17^h 49^m$	86° 36′	$0^s.01$	$0''.01$	$17^h 49^m$	86° 36′	$0^s.01$	$0''.01$	$17^h 50^m$	86° 36′	$0^s.01$	$0''.01$
1	$39^s.01$	$38''.56$	−9	+1	$43^s.15$	$28''.65$	−1	−8	$51^s.49$	$23''.05$	+1	−8	$2^s.63$	$22''.38$	+9	0
2	39.04	38.21	−8	−2	43.39	28.38	+2	−8	51.84	22.93	+4	−7	2.97	22.46	+9	+4
3	39.08	37.86	−6	−5	43.63	28.11	+5	−6	52.19	22.82	+7	−5	3.32	22.55	+7	+7
4	39.12	37.51	−3	−7	43.88	27.85	+8	−4	52.54	22.72	+9	−2	3.67	22.64	+5	+9
5	39.17	37.16	0	−8	44.13	27.60	+10	0	52.89	22.62	+10	+2	4.01	22.74	+1	+10
6	39.23	36.81	+3	−8	44.39	27.35	+9	+3	53.24	22.53	+9	+5	4.35	22.84	−2	+8
7	39.29	36.47	+7	−6	44.65	27.10	+8	+7	53.60	22.44	+7	+8	4.69	22.95	−5	+5
8	39.36	36.13	+9	−2	44.92	26.86	+5	+9	53.96	22.36	+3	+10	5.02	23.06	−6	0
9	39.44	35.79	+9	+1	45.19	26.63	+1	+10	54.32	22.29	0	+9	5.35	23.18	−5	−4
10	39.53	35.45	+8	+5	45.47	26.40	−2	+8	54.68	22.22	−4	+7	5.67	23.31	−3	−8
11	39.62	35.11	+6	+8	45.75	26.17	−5	+5	55.04	22.16	−6	+3	6.00	23.44	+1	−9
12	39.72	34.77	+3	+9	46.04	25.95	−7	+1	55.40	22.11	−6	−2	6.31	23.58	+4	−9
13	39.83	34.44	−1	+9	46.33	25.73	−6	−4	55.77	22.06	−5	−6	6.63	23.72	+6	−6
14	39.94	34.11	−4	+7	46.62	25.52	−4	−7	56.14	22.02	−2	−8	6.95	23.87	+7	−2
15	40.06	33.78	−7	+3	46.92	25.32	−1	−9	56.51	21.98	+2	−9	7.26	24.02	+6	+3
16	40.19	33.45	−7	−1	47.22	25.12	+2	−9	56.87	21.96	+4	−7	7.56	24.18	+2	+6
17	40.32	33.13	−6	−5	47.53	24.92	+5	−6	57.24	21.93	+6	−4	7.87	24.34	−1	+8
18	40.47	32.81	−3	−8	47.84	24.73	+6	−2	57.60	21.92	+6	0	8.17	24.51	−5	+8
19	40.62	32.49	+1	−9	48.16	24.55	+5	+2	57.96	21.91	+4	+4	8.46	24.68	−9	+6
20	40.77	32.18	+4	−8	48.48	24.37	+3	+5	58.33	21.91	+1	+7	8.75	24.86	−10	+3
21	40.94	31.87	+6	−5	48.80	24.20	0	+8	58.69	21.91	−3	+8	9.03	25.05	−10	−1
22	41.11	31.56	+6	−1	49.13	24.04	−4	+8	59.05	21.93	−7	+7	9.31	25.24	−8	−4
23	41.29	31.25	+5	+3	49.46	23.88	−7	+6	59.42	21.94	−9	+4	9.59	25.43	−6	−7
24	41.47	30.94	+2	+6	49.79	23.72	−9	+3	59.78	21.97	−10	+1	9.86	25.63	−2	−8
25	41.66	30.64	−1	+8	50.12	23.57	−9	0	60.14	22.00	−9	−2	10.13	25.83	+1	−8
26	41.85	30.34	−5	+7	50.46	23.43	−8	−3	60.50	22.03	−7	−5	10.40	26.04	+4	−7
27	42.05	30.05	−7	+5	50.80	23.30	−6	−6	60.86	22.07	−4	−7	10.66	26.25	+7	−4
28	42.26	29.76	−9	+2	51.14	23.17	−3	−8	61.22	22.12	−1	−8	10.91	26.46	+8	−1
29	42.47	29.48	−9	−1	51.49	23.05	+1	−8	61.57	22.18	+2	−7	11.16	26.68	+9	+3
30	42.69	29.20	−7	−4					61.93	22.24	+5	−6	11.41	26.90	+8	+6
31	42.92	28.92	−4	−7					62.28	22.31	+8	−3	11.65	27.13	+5	+8
32	43.15	28.65	−1	−8					62.63	22.38	+9	0				

δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 30″	16.903	+16.873
30	16.903	+16.873	40	16.917	+16.887

$\alpha_{1945.0} = 17^h\ 49^m\ 55^s.54$ $\delta_{1945.0} = +86°\ 36'\ 39''.33$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$17^{h}50^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$	$17^{h}50^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$	$17^{h}50^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$	$17^{h}49^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$
1	$11^{s}.65$	$27''.13$	+5	+8	$16^{s}.23$	$35''.68$	−5	+4	$14^{s}.75$	$45''.21$	0	−9	$67^{s}.58$	$53''.18$	+7	0
2	11.88	27.36	+2	+10	16.28	35.99	−6	−1	14.60	45.51	+3	−9	67.27	53.39	+6	+4
3	12.11	27.60	−1	+9	16.32	36.31	−4	−5	14.45	45.80	+6	−6	66.96	53.60	+2	+7
4	12.34	27.84	−4	+6	16.36	36.62	−2	−8	14.29	46.09	+8	−3	66.64	53.80	−1	+8
5	12.56	28.08	−5	+2	16.39	36.93	+2	−9	14.12	46.38	+7	+2	66.32	54.00	−5	+8
6	12.77	28.33	−5	−2	16.41	37.25	+5	−8	13.95	46.67	+5	+6	65.99	54.19	−8	+5
7	12.98	28.57	−3	−6	16.43	37.56	+8	−5	13.77	46.95	+1	+8	65.66	54.38	−9	+1
8	13.18	28.83	0	−9	16.44	37.87	+8	−1	13.59	47.23	−3	+8	65.32	54.56	−9	−3
9	13.37	29.08	+3	−9	16.44	38.18	+7	+3	13.40	47.51	−7	+7	64.98	54.74	−7	−6
10	13.56	29.34	+6	−7	16.44	38.49	+3	+7	13.20	47.79	−9	+4	64.64	54.92	−5	−8
11	13.75	29.60	+8	−3	16.43	38.79	−1	+9	13.00	48.06	−10	0	64.29	55.10	−1	−9
12	13.93	29.87	+7	+1	16.41	39.10	−5	+8	12.80	48.33	−9	−4	63.94	55.27	+2	−8
13	14.10	30.14	+5	+5	16.39	39.41	−8	+6	12.59	48.60	−7	−7	63.59	55.43	+6	−6
14	14.27	30.41	+1	+8	16.36	39.73	−10	+2	12.37	48.87	−3	−8	63.23	55.60	+8	−3
15	14.43	30.68	−3	+8	16.33	40.04	−10	−2	12.15	49.14	0	−9	62.87	55.76	+9	+1
16	14.59	30.96	−7	+7	16.29	40.35	−8	−5	11.92	49.40	+4	−7	62.51	55.91	+8	+4
17	14.74	31.24	−10	+4	16.24	40.66	−6	−8	11.69	49.66	+7	−5	62.14	56.06	+6	+7
18	14.88	31.52	−11	0	16.18	40.97	−2	−9	11.45	49.92	+8	−2	61.77	56.20	+4	+9
19	15.02	31.81	−10	−3	{16.12 16.06	41.28 41.59	+2 +5	−8} −6}	11.21	50.17	+9	+2	61.40	56.34	0	+10
20	15.15	32.09	−7	−6	15.98	41.89	+7	−3	10.96	50.42	+7	+6	61.02	56.48	−3	+8
21	15.27	32.38	−4	−8	15.90	42.20	+8	0	10.70	50.67	+5	+8	60.64	56.61	−6	+5
22	15.39	32.67	0	−8	15.82	42.51	+8	+4	10.44	50.92	+2	+9	60.26	56.74	−6	0
23	15.50	32.97	+3	−7	15.72	42.82	+6	+7	10.18	51.16	−1	+9	59.87	56.87	−6	−4
24	15.61	33.26	+6	−5	15.63	43.12	+4	+9	9.91	51.40	−4	+6	59.48	56.99	−3	−8
25	15.71	33.56	+8	−2	15.52	43.43	0	+10	9.64	51.63	−6	+3	59.09	57.10	0	−9
26	15.80	33.86	+8	+1	15.41	43.73	−3	+8	9.36	51.86	−6	−2	58.70	57.21	+4	−9
27	15.89	34.16	+7	+5	15.29	44.03	−5	+5	9.08	52.09	−5	−6	58.30	57.32	+6	−6
28	15.97	34.46	+6	+8	15.17	44.33	−6	+1	8.79	52.32	−2	−8	57.91	57.42	+7	−2
29	16.05	34.76	+3	+9	15.03	44.62	−6	−3	8.49	52.54	+2	−9	57.50	57.51	+6	+3
30	16.12	35.06	0	+9	14.90	44.92	−3	−7	8.19	52.76	+5	−8	57.10	57.60	+3	+6
31	16.18	35.37	−3	+7	14.75	45.21	0	−9	7.89	52.97	+7	−4	56.70	57.69	−1	+8
32	16.23	35.68	−5	+4					7.58	53.18	+7	0	56.29	57.77	−4	+8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 30″	16.903	+16.873	+86° 36′ 50″	16.931	+16.901
30	16.903	+16.873	40	16.917	+16.887	60	16.945	+16.915

$\alpha_{1945.0} = 17^{h}\ 49^{m}\ 55^{s}.54$ $\delta_{1945.0} = +86°\ 36'\ 39''.33$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$17^{h}49^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$	$17^{h}49^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$	$17^{h}49^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$	$17^{h}49^{m}$	+86° 36′	in $0^{s}.01$	in $0''.01$
1	$56^{s}.29$	$57''.77$	−4	+8	$43^{s}.58$	$57''.99$	−11	0	$31^{s}.25$	$53''.59$	−2	−9	$22^{s}.81$	$45''.41$	+6	−5
2	55.88	57.85	−8	+6	43.15	57.92	−10	−4	30.90	53.37	+1	−8	22.61	45.09	+7	−1
3	55.47	57.92	−9	+3	42.72	57.84	−7	−7	30.55	53.15	+4	−6	22.43	44.77	+7	+3
4	55.06	57.99	−10	−1	42.30	57.76	−4	−8	30.21	52.92	+7	−3	22.25	44.44	+6	+6
5	54.64	58.05	−8	−5	41.88	57.68	0	−9	29.87	52.69	+8	0	22.07	44.11	+4	+8
6	54.23	58.11	−6	−7	41.46	57.59	+3	−8	29.54	52.46	+8	+4	21.90	43.78	+2	+9
7	53.81	58.16	−2	−9	41.04	57.49	+6	−5	29.21	52.22	+6	+7	21.74	43.45	−1	+9
8	53.39	58.21	+1	−9	40.62	57.39	+8	−2	28.88	51.98	+4	+9	21.59	43.11	−4	+7
9	52.97	58.25	+4	−7	40.20	57.29	+8	+2	28.56	51.74	+1	+9	21.44	42.77	−5	+3
10	52.55	58.29	+7	−4	39.78	57.18	+8	+5	28.24	51.49	−2	+8	21.30	42.44	−5	−1
11	52.13	58.33	+8	−1	39.37	57.07	+6	+8	27.93	51.23	−4	+6	21.16	42.10	−4	−5
12	51.70	58.36	+9	+3	38.95	56.95	+3	+9	27.62	50.98	−5	+2	21.04	41.76	−1	−8
13	51.28	58.38	+7	+6	38.54	56.83	0	+10	27.32	50.71	−5	−3	20.92	41.41	+3	−9
14	50.85	58.40	+5	+9	38.14	56.70	−3	+7	27.02	50.45	−2	−7	20.80	41.07	+7	−8
15	50.43	58.42	+2	+10	37.73	56.57	−5	+4	26.73	50.18	+1	−9	20.70	40.72	+9	−5
16	50.00	58.43	−1	+9	37.33	56.43	−5	0	26.45	49.90	+5	−9	20.60	40.37	+9	0
17	49.57	58.43	−4	+6	36.93	56.28	−4	−5	26.17	49.62	+8	−7	20.51	40.02	+7	+4
18	49.14	58.43	−6	+2	36.53	56.13	−1	−8	25.89	49.34	+9	−3	20.43	39.67	+4	+8
19	48.71	58.43	−6	−2	36.14	55.98	+2	−9	25.62	49.06	+8	+2	*)20.35	39.32	−1	+9
20	48.28	58.42	−4	−6	35.74	55.83	+5	−8	25.35	48.77	+5	+6	20.28	38.96	−6	+8
21	47.85	58.41	−1	−9	35.35	55.67	+8	−5	25.09	48.48	+1	+9	20.22	38.61	−9	+5
22	47.42	58.39	+3	−9	34.96	55.50	+8	−1	24.84	48.19	−4	+9	20.16	38.25	−11	+1
23	46.99	58.36	+6	−7	34.57	55.33	+6	+4	24.59	47.89	−8	+7	20.12	37.90	−11	−3
24	46.57	58.33	+7	−3	34.19	55.16	+3	+7	24.34	47.59	−11	+4	20.08	37.55	−9	−6
25	46.14	58.30	+7	+1	33.81	54.98	−2	+9	24.11	47.29	−11	−1	20.04	37.20	−5	−9
26	45.71	58.26	+5	+5	33.44	54.79	−6	+8	23.87	46.98	−10	−5	20.02	36.84	−2	−9
27	45.28	58.21	+1	+8	33.06	54.60	−9	+6	23.65	46.67	−7	−8	20.00	36.49	+2	−8
28	44.86	58.16	−3	+8	32.70	54.41	−11	+2	23.43	46.36	−4	−9	19.99	36.14	+5	−6
29	44.43	58.11	−7	+7	32.33	54.21	−11	−2	23.22	46.05	0	−9	19.98	35.79	+7	−2
30	44.00	58.05	−10	+4	31.97	54.01	−9	−6	23.01	45.73	+3	−7	19.99	35.43	+7	+1
31	43.58	57.99	−11	0	31.61	53.80	−6	−8	22.81	45.41	+6	−5	20.00	35.08	+7	+5
32					31.25	53.59	−2	−9					20.01	34.73	+5	+8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 40″	16.917	+16.887	+86° 36′ 50″	16.931	+16.901
40	16.917	+16.887	50	16.931	+16.901	60	16.945	+16.915

$\alpha_{1945.0} = 17^{h}\ 49^{m}\ 55^{s}.54$ $\delta_{1945.0} = +86°\ 36'\ 39''.33$

*) Tag der doppelten unteren Kulmination: Dez. 19.

Ni) λ Ursae minoris $6^m.55$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 26^m$	+89° 2′	in 0.01s	in 0.01″	$18^h 26^m$	+89° 2′	in 0.01s	in 0.01″	$18^h 27^m$	+89° 2′	in 0.01s	in 0.01″	$18^h 28^m$	+89° 2′	in 0.01s	in 0.01″
	s	″			s	″			s	″			s	″		
1	50.95	54.30	−35	+2	58.42	44.13	−10	−8	23.58	37.51	− 3	−8	1.64	35.27	+36	−1
2	50.80	53.96	−35	−1	59.06	43.83	+ 3	−8	24.71	37.35	+11	−8	2.89	35.30	+37	+3
3	50.68	53.62	−29	−4	59.72	43.54	+17	−7	25.85	37.19	+24	−6	4.14	35.33	+34	+6
4	50.59	53.28	−19	−7	60.40	43.25	+29	−5	27.00	37.04	+34	−3	5.39	35.37	+25	+8
5	50.52	52.94	− 5	−8	61.10	42.97	+37	−2	28.16	36.89	+39	0	6.63	35.42	+11	+9
6	50.48	52.59	+ 9	−8	61.82	42.69	+39	+2	29.33	36.75	+38	+4	7.86	35.47	− 3	+8
7	50.46	52.25	+22	−6	62.57	42.41	+35	+5	30.51	36.62	+31	+7	9.09	35.53	−15	+5
8	50.47	51.91	+32	−4	63.34	42.14	+25	+8	31.70	36.49	+19	+9	10.31	35.59	−22	+1
9	50.51	51.57	+37	0	64.13	41.87	+11	+9	32.90	36.37	+ 4	+9	11.53	35.66	−22	−4
10	50.57	51.23	+36	+4	64.94	41.61	− 5	+9	34.11	36.25	−10	+7	12.74	35.74	−15	−7
11	50.65	50.89	+29	+7	65.76	41.35	−18	+6	35.32	36.14	−21	+4	13.94	35.82	− 3	−9
12	50.77	50.55	+17	+9	66.60	41.10	−26	+2	36.54	36.04	−26	−1	15.13	35.91	+10	−9
13	50.91	50.21	+ 2	+9	67.47	40.85	−27	−3	37.77	35.94	−23	−5	16.31	36.00	+21	−7
14	51.08	49.88	−13	+8	68.35	40.60	−21	−7	39.00	35.85	−13	−8	17.48	36.10	+26	−3
15	51.27	49.54	−24	+4	69.25	40.36	− 9	−9	40.24	35.77	0	−9	18.64	36.20	+23	+2
16	51.49	49.21	−29	0	70.17	40.12	+ 4	−9	41.48	35.69	+13	−8	19.80	36.31	+14	+6
17	51.74	48.87	−26	−4	71.11	39.89	+16	−7	42.73	35.62	+21	−5	20.95	36.43	− 1	+8
18	52.01	48.54	−17	−7	72.07	39.66	+22	−3	43.98	35.55	+23	−1	22.09	36.55	−17	+9
19	52.31	48.21	− 4	−9	73.04	39.44	+22	+1	45.23	35.49	+18	+4	23.22	36.67	−30	+7
20	52.63	47.88	+10	−8	74.03	39.22	+15	+5	46.49	35.44	+ 7	+7	24.33	36.80	−38	+4
21	52.97	47.55	+20	−6	75.03	39.01	+ 3	+7	47.75	35.39	− 7	+8	25.43	36.94	−40	0
22	53.35	47.22	+25	−2	76.05	38.80	−11	+8	49.02	35.35	−21	+8	26.52	37.08	−36	−3
23	53.75	46.90	+22	+3	77.09	38.60	−23	+7	50.28	35.31	−32	+6	27.60	37.23	−27	−6
24	54.17	46.59	+13	+6	78.14	38.40	−32	+5	51.54	35.28	−37	+3	28.67	37.38	−15	−7
25	54.62	46.27	0	+8	79.20	38.21	−35	+1	52.81	35.26	−37	−1	29.72	37.54	− 1	−8
26	55.09	45.96	−14	+8	80.28	38.03	−33	−2	54.07	35.24	−31	−4	30.76	37.70	+12	−7
27	55.59	45.64	−25	+6	81.37	37.85	−26	−5	55.34	35.23	−21	−6	31.78	37.87	+23	−5
28	56.11	45.33	−33	+4	82.47	37.68	−16	−7	56.60	35.23	− 8	−7	32.79	38.04	+31	−2
29	56.65	45.03	−35	0	83.58	37.51	− 3	−8	57.87	35.23	+ 5	−8	33.79	38.22	+35	+1
30	57.22	44.73	−31	−3					59.13	35.24	+18	−7	34.77	38.40	+33	+5
31	57.80	44.43	−23	−6					60.39	35.25	+29	−4	35.74	38.59	+26	+7
32	58.42	44.13	−10	−8					61.64	35.27	+36	−1				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 30″	59.790	+59.781	+89° 2′ 40″	59.964	+59.955	+89° 2′ 50″	60.138	+60.130
40	59.964	+59.955	50	60.138	+60.130	60	60.314	+60.306

$\alpha_{1945.0} = 18^h\ 27^m\ 46^s.96$ $\delta_{1945.0} = +89°\ 2'\ 52''.77$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Ni) λ Ursae minoris 6^m55

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in 0.01s	Mai ☾ Glieder in 0.01"	Juni AR.	Juni Dekl.	Juni ☾ Glieder in 0.01s	Juni ☾ Glieder in 0.01"	Juli AR.	Juli Dekl.	Juli ☾ Glieder in 0.01s	Juli ☾ Glieder in 0.01"	August AR.	August Dekl.	August ☾ Glieder in 0.01s	August ☾ Glieder in 0.01"
	$18^h 28^m$	+89° 2′			$18^h 28^m$	+89° 2′			$18^h 28^m$	+89° 2′			$18^h 27^m$	+89° 3′		
	s	"			s	"			s	"			s	"		
1	35.74	38.59	+26	+7	56.63	46.25	−18	+5	56.85	55.75	−6	−9	96.11	4.57	+29	−1
2	36.69	38.78	+15	+9	56.98	46.54	−23	0	56.49	56.06	+8	−9	95.13	4.81	+25	+3
3	37.62	38.98	+2	+9	57.30	46.83	−21	−4	56.12	56.36	+22	−7	94.13	5.06	+14	+7
4	38.54	39.18	−11	+7	57.61	47.13	−12	−7	55.72	56.67	+30	−4	93.12	5.31	0	+9
5	39.44	39.38	−20	+3	57.89	47.43	+1	−9	55.29	56.97	+30	+1	92.09	5.55	−16	+8
6	40.32	39.59	−22	−1	58.14	47.73	+15	−9	54.85	57.28	+23	+5	91.04	5.79	−29	+6
7	41.19	39.80	−18	−6	58.38	48.03	+27	−6	54.39	57.58	+10	+8	89.97	6.02	−37	+3
8	42.04	40.02	−7	−8	58.59	48.33	+31	−2	53.90	57.88	−6	+9	88.89	6.25	−38	−1
9	42.87	40.24	+7	−9	58.78	48.64	+28	+2	53.39	58.18	−22	+8	87.79	6.48	−33	−5
10	43.68	40.46	+20	−8	58.95	48.94	+18	+6	52.86	58.48	−33	+5	86.68	6.70	−23	−7
11	44.48	40.69	+28	−5	59.09	49.25	+2	+9	52.31	58.78	−39	+1	85.55	6.92	−10	−8
12	45.26	40.92	+29	0	59.21	49.55	−15	+9	51.73	59.07	−38	−2	84.41	7.14	+5	−8
13	46.02	41.16	+22	+4	59.31	49.86	−30	+7	51.14	59.37	−30	−6	83.25	7.35	+18	−7
14	46.76	41.40	+8	+8	59.38	50.16	−39	+4	50.53	59.66	−18	−8	82.08	7.56	+29	−4
15	47.48	41.64	−8	+9	59.43	50.47	−41	0	49.90	59.96	−4	−9	80.89	7.76	+35	−1
16	48.18	41.89	−24	+8	59.46	50.78	−36	−4	49.25	60.25	+10	−8	79.69	7.96	+36	+3
17	48.86	42.14	−36	+6	59.47	51.09	−27	−7	48.57	60.53	+22	−6	78.48	8.16	+31	+6
18	49.53	42.40	−41	+2	59.45	51.40	−13	−8	47.87	60.81	+31	−3	77.25	8.36	+21	+9
19	50.17	42.66	−40	−2	59.41	51.71	+1	−8	47.15	61.10	+35	+1	76.01	8.55	+7	+9
20	50.79	42.93	−33	−5	59.35	52.03	+15	−7	46.42	61.38	+33	+4	74.75	8.74	−7	+8
21	51.39	43.19	−21	−7	59.27	52.34	+25	−5	45.67	61.66	+25	+7	73.48	8.92	−19	+5
22	51.97	43.46	−7	−8	59.16	52.65	+32	−1	44.89	61.93	+14	+9	72.20	9.10	−25	+1
23	52.54	43.72	+7	−8	59.03	52.96	+33	+2	44.10	62.20	0	+9	70.90	9.28	−25	−3
24	53.08	43.99	+19	−6	58.88	53.27	+29	+6	43.28	62.48	−14	+7	69.59	9.45	−17	−7
25	53.60	44.27	+28	−3	58.71	53.58	+20	+8	42.45	62.75	−23	+4	68.27	9.62	−5	−9
26	54.10	44.55	+33	0	58.51	53.89	+8	+9	41.60	63.02	−26	−1	66.94	9.78	+9	−9
27	54.58	44.82	+32	+3	58.29	54.20	−5	+8	40.73	63.28	−23	−5	65.60	9.94	+21	−7
28	55.03	45.10	+27	+7	58.05	54.51	−17	+6	39.84	63.54	−13	−8	64.24	10.10	+27	−3
29	55.46	45.38	+17	+8	57.78 57.49	54.82 55.13	−24 −24	+2 −2	38.93	63.80	+1	−9	62.87	10.25	+26	+2
30	55.88	45.67	+4	+9	57.18	55.44	−18	−6	38.01	64.06	+15	−8	61.49	10.40	+17	+6
31	56.27	45.96	−9	+8	56.85	55.75	−6	−9	37.07	64.32	+25	−5	60.10	10.54	+4	+8
32	56.63	46.25	−18	+5					36.11	64.57	+29	−1	58.70	10.68	−12	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 30″	59.790	+59.781	+89° 2′ 50″	60.138	+60.130	+89° 3′ 10″	60.491	+60.483
40	59.964	+59.955	60	60.314	+60.306	20	60.669	+60.661

$\alpha_{1945.0} = 18^h\ 27^m\ 46^s.96$ $\delta_{1945.0} = +89°\ 2'\ 52''.77$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Ni) λ Ursae minoris 6ᵐ55

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$18^h 27^m$	+ 89° 3′	in $0\overset{s}{.}01$	in $0\overset{''}{.}01$	$18^h 26^m$	+ 89° 3′	in $0\overset{s}{.}01$	in $0\overset{''}{.}01$	$18^h 25^m$	+ 89° 3′	in $0\overset{s}{.}01$	in $0\overset{''}{.}01$	$18^h 25^m$	+ 89° 2′	in $0\overset{s}{.}01$	in $0\overset{''}{.}01$
1	58.70	10.68	−12	+9	73.58	12.74	−41	+2	86.79	10.25	−14	−8	51.18	63.55	+19	−5
2	57.29	10.81	−26	+7	72.02	12.73	−40	−2	85.39	10.09	+1	−8	50.27	63.26	+27	−2
3	55.87	10.94	−35	+4	70.46	12.72	−32	−5	84.00	9.93	+14	−7	49.37	62.97	+30	+1
4	54.45	11.07	−39	0	68.90	12.71	−21	−7	82.63	9.76	+24	−4	48.50	62.68	+29	+5
5	53.02	11.19	−36	−3	67.34	12.69	−7	−8	81.27	9.59	+30	−1	47.65	62.38	+22	+7
6	51.58	11.31	−27	−6	65.78	12.66	+7	−8	79.92	9.41	+32	+2	46.83	62.08	+13	+9
7	50.13	11.42	−15	−8	64.22	12.63	+19	−6	78.58	9.23	+29	+6	46.03	61.78	+1	+9
8	48.67	11.53	−1	−9	62.66	12.60	+28	−3	77.26	9.04	+22	+8	45.25	61.48	−10	+7
9	47.20	11.64	+13	−7	61.11	12.56	+33	0	75.95	8.85	+11	+9	44.49	61.17	−19	+4
10	45.72	11.74	+24	−5	59.56	12.51	+34	+4	74.65	8.65	−1	+8	43.76	60.86	−22	0
11	44.24	11.83	+33	−2	58.01	12.46	+29	+7	73.37	8.45	−12	+6	43.05	60.55	−18	−5
12	42.75	11.92	+36	+1	56.47	12.40	+19	+9	72.10	8.24	−20	+2	42.36	60.24	−8	−8
13	41.26	12.01	+34	+5	54.93	12.34	+7	+9	70.85	8.03	−20	−2	41.70	59.93	+6	−10
14	39.76	12.09	+26	+8	53.39	12.28	−6	+8	69.61	7.81	−14	−6	41.06	59.61	+21	−9
15	38.25	12.17	+15	+9	51.85	12.21	−16	+5	68.39	7.59	−2	−9	40.44	59.29	+32	−6
16	36.74	12.24	+1	+9	50.32	12.13	−21	0	67.18	7.37	+12	−10	39.85	58.96	+36	−2
17	35.22	12.31	−12	+7	48.80	12.05	−20	−4	65.99	7.14	+25	−8	39.28	58.64	+32	+3
18	33.69	12.37	−21	+3	47.28	11.97	−11	−8	64.81	6.91	+33	−4	38.74	58.32	+20	+7
19	32.16	12.43	−24	−2	45.77	11.88	+2	−10	63.65	6.67	+33	0	38.22	57.99	+2	+9
20	30.63	12.48	−19	−6	44.27	11.78	+16	−9	62.51	6.43	+24	+5	37.73	57.66	−17	+9
21	29.09	12.53	−8	−9	42.77	11.68	+27	−6	61.39	6.19	+9	+8	37.26	57.32	−33	+7
22	27.55	12.57	+5	−9	41.28	11.57	+31	−2	60.28	5.94	−9	+10	36.82	56.99	−42	+3
23	26.01	12.61	+18	−8	39.79	11.46	+26	+3	59.19	5.69	−27	+8	36.41	56.66	−44	−1
24	24.46	12.64	+26	−4	38.31	11.35	+15	+7	58.12	5.44	−40	+5	36.02	56.32	−38	−5
25	22.91	12.67	+28	0	36.84	11.23	−1	+9	57.07	5.18	−45	+1	35.65	55.98	−27	−8
26	21.35	12.69	+21	+4	35.38	11.10	−19	+9	56.04	4.92	−43	−3	35.31	55.64	−12	−9
27	19.80	12.71	+8	+8	33.93	10.97	−33	+7	55.03	4.65	−34	−6	35.00	55.30	+3	−8
28	18.24	12.73	−8	+9	32.48	10.84	−42	+4	54.03	4.38	−21	−8	*)34.71	54.96	+16	−6
29	16.69	12.74	−24	+8	31.04	10.70	−43	0	53.06	4.11	−6	−9	34.45	54.62	+25	−3
30	15.13	12.74	−35	+6	29.62	10.55	−38	−4	52.11	3.83	+8	−8	34.21	54.28	+29	0
31	13.58	12.74	−41	+2	28.20	10.40	−27	−7	51.18	3.55	+19	−5	34.00	53.94	+29	+3
32					26.79	10.25	−14	−8					33.82	53.60	+24	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 50″	60.138	+60.130	+89° 3′ 0″	60.314	+60.306	+89° 3′ 10″	60.491	+60.483
60	60.314	+60.306	10	60.491	+60.483	20	60.669	+60.661

$\alpha_{1945.0} = 18^h\ 27^m\ 46\overset{s}{.}96$ $\delta_{1945.0} = +89°\ 2'\ 52\overset{''}{.}77$

*) Tag der doppelten unteren Kulmination: Dez. 28.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nk) 76 Draconis 5^m69

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	20^h46^m	+82° 19′	in 0.01s	in 0.01″	20^h46^m	+82° 19′	in 0.01s	in 0.01″	20^h46^m	+82° 19′	in 0.01s	in 0.01″	20^h46^m	+82° 19′	in 0.01s	in 0.01″
	s	″			s	″			s	″			s	″		
1	35.34	54.46	−2	+7	*)33.50	44.69	−3	−5	34.39	35.52	−2	−6	37.84	28.32	+2	−6
2	35.24	54.19	−3	+4	33.49	44.35	−2	−7	34.47	35.22	−1	−8	37.99	28.17	+3	−3
3	35.14	53.91	−3	0	33.48	44.01	−1	−8	34.55	34.93	0	−9	38.13	28.03	+4	0
4	35.04	53.63	−3	−3	33.48	43.66	0	−8	34.63	34.64	+1	−7	38.28	27.89	+4	+4
5	34.94	53.35	−3	−6	33.47	43.32	+2	−7	34.71	34.35	+3	−5	38.42	27.76	+3	+6
6	34.85	53.06	−2	−8	33.48	42.98	+3	−4	34.80	34.07	+4	−2	38.57	27.63	+2	+7
7	34.76	52.77	0	−9	33.48	42.64	+4	0	34.89	33.79	+4	+2	38.72	27.51	0	+6
8	34.67	52.47	+1	−8	33.49	42.30	+4	+3	34.98	33.52	+4	+5	38.87	27.40	−1	+4
9	34.59	52.18	+2	−6	33.50	41.97	+3	+6	35.08	33.25	+3	+7	39.02	27.29	−3	0
10	34.51	51.87	+3	−2	33.52	41.63	+2	+8	35.17	32.98	+1	+7	39.17	27.19	−3	−4
11	34.43	51.57	+4	+1	33.54	41.29	0	+7	35.27	32.72	0	+6	39.32	27.10	−3	−8
12	34.36	51.26	+4	+5	33.56	40.96	−1	+5	35.38	32.46	−2	+3	39.48	27.01	−2	−9
13	34.29	50.95	+3	+7	33.58	40.62	−3	+1	35.48	32.21	−3	−1	39.63	26.93	0	−8
14	34.22	50.64	+1	+8	33.61	40.29	−3	−3	35.59	31.96	−3	−5	39.78	26.85	+1	−6
15	34.15	50.33	0	+7	33.64	39.96	−3	−6	35.70	31.71	−3	−8	39.94	26.78	+2	−1
16	34.09	50.01	−2	+4	33.67	39.63	−2	−8	35.80	31.47	−1	−9	40.09	26.71	+3	+3
17	34.02	49.69	−3	0	33.71	39.30	−1	−8	35.92	31.24	0	−7	40.24	26.65	+2	+7
18	33.97	49.37	−3	−4	33.75	38.97	+1	−6	36.03	31.01	+1	−4	40.40	26.60	+1	+10
19	33.91	49.05	−3	−7	33.80	38.64	+2	−2	36.15	30.78	+2	+1	40.56	26.56	0	+10
20	33.86	48.72	−2	−8	33.84	38.32	+3	+2	36.27	30.56	+2	+5	40.72	26.52	−2	+9
21	33.81	48.40	0	−7	33.90	38.00	+2	+6	36.39	30.35	+2	+8	40.88	26.48	−3	+6
22	33.77	48.06	+1	−5	33.95	37.68	+2	+9	36.51	30.14	+1	+10	41.04	26.46	−3	+2
23	33.73	47.73	+2	−1	34.00	37.36	+1	+9	36.64	29.93	0	+10	41.20	26.44	−3	−1
24	33.69	47.40	+3	+3	34.06	37.04	−1	+9	36.77	29.73	−2	+8	41.36	26.42	−3	−4
25	33.65	47.06	+2	+7	34.12	36.73	−2	+6	36.90	29.53	−3	+4	41.52	26.41	−2	−7
26	33.62	46.73	+1	+9	34.18	36.42	−3	+3	37.03	29.34	−3	+1	41.68	26.41	−1	−8
27	33.59	46.39	0	+9	34.25	36.12	−3	0	37.16	29.16	−3	−2	41.84	26.42	0	−8
28	33.57	46.05	−1	+8	34.32	35.81	−3	−4	37.29	28.98	−3	−5	42.00	26.43	+1	−6
29	33.54	45.72	−2	+5	34.39	35.52	−2	−6	37.43	28.81	−2	−7	42.16	26.44	+3	−4
30	33.53	45.38	−3	+2					37.56	28.64	−1	−8	42.32	26.47	+4	−1
31	33.51	45.03	−3	−2					37.70	28.48	+1	−8	42.47	26.50	+4	+3
32	33.50	44.69	−3	−5					37.84	28.32	+2	−6				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 19′ 20″	7.485	+7.418	+82° 19′ 30″	7.488	+7.421	+82° 19′ 50″	7.493	+7.426
30	7.488	+7.421	40	7.490	+7.423	60	7.496	+7.429

$\alpha_{1945.0} = 20^h\ 46^m\ 41^s.53$ $\delta_{1945.0} = +82°\ 19'\ 45''.67$

*) Tag der doppelten unteren Kulmination: Febr. 1.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	20^h46^m	+82° 19′	in 0.01 s	in 0.01″	20^h46^m	+82° 19′	in 0.01 s	in 0.01″	20^h46^m	+82° 19′	in 0.01 s	in 0.01″	20^h46^m	+82° 19′	in 0.01 s	in 0.01″
1	42.47	26.50	+4	+3	47.02	30.30	0	+6	49.95	38.29	−3	−3	50.66	48.86	0	−8
2	42.63	26.54	+4	+5	47.15	30.51	−1	+3	50.01	38.61	−3	−7	50.64	49.22	+2	−5
3	42.79	26.58	+3	+7	47.28	30.72	−3	−1	50.07	38.93	−2	−9	{50.62 / 50.59	49.57 / 49.93	+3 / +3	−1 / +4}
4	42.95	26.62	+1	+7	47.40	30.94	−3	−5	50.13	39.24	−1	−9	50.56	50.28	+2	+7
5	43.11	26.68	0	+5	47.52	31.16	−3	−8	50.18	39.57	+1	−7	50.53	50.63	+1	+9
6	43.27	26.73	−2	+2	47.64	31.39	−2	−10	50.23	39.89	+2	−4	50.50	50.99	0	+9
7	43.42	26.80	−3	−2	47.76	31.62	0	−9	50.28	40.22	+3	+1	50.46	51.34	−2	+8
8	43.58	26.87	−3	−6	47.87	31.86	+1	−6	50.33	40.55	+3	+5	50.42	51.68	−3	+5
9	43.73	26.95	−2	−9	47.99	32.10	+3	−2	50.37	40.88	+2	+8	50.38	52.03	−4	+1
10	43.89	27.03	−1	−10	48.10	32.34	+3	+3	50.42	41.21	+1	+10	50.34	52.38	−4	−3
11	44.04	27.13	+1	−8	48.21	32.59	+3	+7	50.46	41.55	−1	+9	50.30	52.73	−3	−6
12	44.19	27.22	+2	−4	48.32	32.84	+2	+10	50.49	41.89	−2	+7	50.25	53.09	−2	−8
13	44.34	27.33	+3	+1	48.43	33.09	0	+10	50.52	42.23	−3	+3	50.20	53.43	−1	−8
14	44.49	27.44	+3	+5	48.53	33.35	−2	+9	50.56	42.56	−4	−1	50.14	53.78	+1	−7
15	44.64	27.55	+2	+9	48.64	33.61	−3	+6	50.58	42.91	−3	−4	50.09	54.13	+2	−5
16	44.79	27.67	+1	+10	48.74	33.88	−4	+2	50.61	43.25	−3	−7	50.03	54.47	+3	−3
17	44.94	27.79	−1	+10	48.83	34.15	−4	−2	50.63	43.59	−1	−8	49.97	54.81	+4	+1
18	45.09	27.92	−2	+7	48.93	34.42	−3	−5	50.65	43.94	0	−8	49.91	55.16	+4	+4
19	45.24	28.06	−3	+4	49.02	34.70	−2	−7	50.67	44.29	+1	−7	49.84	55.49	+3	+7
20	45.38	28.20	−4	0	49.11	34.98	−1	−8	50.69	44.64	+3	−4	49.77	55.83	+2	+8
21	45.52	28.35	−4	−3	49.20	35.27	0	−7	50.70	44.99	+4	−1	49.70	56.17	0	+7
22	45.67	28.50	−3	−6	49.28	35.56	+2	−5	50.71	45.34	+4	+3	49.63	56.50	−1	+4
23	45.81	28.66	−2	−7	49.37	35.85	+3	−3	50.72	45.69	+3	+6	49.55	56.84	−3	0
24	45.95	28.82	0	−8	49.45	36.14	+4	+1	50.72	46.04	+2	+8	49.47	57.17	−3	−4
25	46.09	28.99	+1	−7	49.53	36.44	+4	+4	50.72	46.38	+1	+8	49.39	57.50	−3	−7
26	46.23	29.16	+2	−5	49.60	36.74	+3	+7	50.72	46.73	−1	+6	49.31	57.83	−2	−9
27	46.37	29.34	+3	−2	49.68	37.04	+2	+8	50.72	47.09	−2	+3	49.22	58.15	−1	−8
28	46.50	29.52	+4	+2	49.75	37.35	0	+7	50.71	47.44	−3	−1	49.14	58.48	+1	−6
29	46.64	29.71	+4	+5	49.82	37.66	−1	+5	50.70	47.79	−3	−5	49.04	58.80	+2	−2
30	46.77	29.90	+3	+7	49.89	37.97	−2	+1	50.69	48.15	−3	−8	48.95	59.12	+3	+3
31	46.90	30.10	+2	+8	49.95	38.29	−3	−3	50.68	48.50	−1	−9	48.86	59.44	+3	+7
32	47.02	30.30	0	+6					50.66	48.86	0	−8	48.76	59.76	+2	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 19′ 20″	7.485	+7.418	+82° 19′ 30″	7.488	+7.421	+82° 19′ 50″	7.493	+7.426
30	7.488	+7.421	40	7.490	+7.423	60	7.496	+7.429

$\alpha_{1945.0} = 20^h\ 46^m\ 41^s.53$ $\delta_{1945.0} = +82°\ 19'\ 45''.67$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Nk) 76 Draconis 5^m69

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	20^h46^m	+ 82° 19′	in $0^s.01$	in $0''.01$	20^h46^m	+ 82° 20′	in $0^s.01$	in $0''.01$	20^h46^m	+ 82° 20′	in $0^s.01$	in $0''.01$	20^h46^m	+ 82° 20′	in $0^s.01$	in $0''.01$
1	48.76	59.76	+2	+9	44.91	7.83	−2	+8	39.64	12.21	−3	−5	34.36	11.44	0	−7
2	48.66	60.07	0	+10	44.76	8.05	−3	+4	39.46	12.27	−2	−7	34.20	11.32	+1	−6
3	48.56	60.38	−1	+9	44.60	8.26	−4	0	39.28	12.32	−1	−8	34.04	11.20	+2	−3
4	48.46	60.69	−3	+6	44.44	8.46	−4	−3	39.10	12.37	0	−7	33.88	11.07	+3	0
5	48.35	60.99	−3	+2	44.28	8.66	−3	−6	38.92	12.41	+2	−5	33.72	10.94	+4	+3
6	48.24	61.30	−4	−2	44.12	8.86	−2	−8	38.74	12.45	+3	−2	33.56	10.80	+3	+6
7	48.13	61.60	−3	−5	43.96	9.05	0	−8	38.56	12.48	+4	+1	33.40	10.65	+3	+7
8	48.02	61.90	−3	−7	43.80	9.23	+1	−7	38.38	12.50	+4	+4	33.25	10.50	+1	+7
9	47.90	62.19	−1	−8	43.63	9.41	+2	−5	38.20	12.52	+3	+6	33.10	10.35	0	+6
10	47.78	62.48	0	−8	43.47	9.59	+3	−2	38.01	12.53	+2	+7	32.94	10.19	−2	+3
11	47.66	62.77	+2	−6	43.30	9.76	+4	+2	37.83	12.54	+1	+7	32.79	10.02	−3	−2
12	47.54	63.06	+3	−4	43.13	9.93	+4	+5	37.65	12.54	−1	+5	32.64	9.85	−3	−6
13	47.42	63.34	+4	−1	42.97	10.09	+3	+7	37.47	12.53	−2	+1	32.50	9.67	−2	−9
14	47.29	63.62	+4	+3	42.80	10.25	+2	+7	37.29	12.52	−3	−4	32.35	9.49	−1	−11
15	47.17	63.90	+4	+6	42.63	10.40	0	+6	37.12	12.51	−3	−8	32.21	9.30	0	−10
16	47.04	64.17	+3	+7	42.46	10.55	−1	+3	36.94	12.48	−2	−10	32.07	9.11	+2	−6
17	46.91	64.44	+1	+7	42.29	10.69	−3	−1	36.76	12.45	−1	−10	31.93	8.91	+3	−2
18	46.77	64.71	−1	+5	42.11	10.83	−3	−5	36.59	12.42	+1	−8	31.79	8.70	+3	+4
19	46.64	64.97	−2	+2	41.94	10.96	−3	−8	36.41	12.38	+2	−4	31.65	8.49	+3	+8
20	46.51	65.23	−3	−2	41.77	11.09	−2	−10	36.24	12.33	+3	+1	31.52	8.28	+1	+10
21	46.37	65.49	−3	−6	41.60	11.22	0	−9	36.06	12.28	+3	+6	31.38	8.07	0	+11
22	46.23	65.74	−2	−9	41.42	11.33	+2	−6	35.89	12.22	+2	+10	31.25	7.85	−2	+9
23	46.09	65.99	−1	−9	41.25	11.45	+3	−1	35.72	12.16	0	+11	31.13	7.62	−3	+5
24	45.95	66.23	+1	−7	41.07	11.55	+3	+4	35.54	12.09	−1	+10	31.00	7.39	−4	+1
25	45.80	66.47	+2	−4	40.90	11.65	+2	+8	35.37	12.01	−3	+7	30.88	7.15	−4	−3
26	45.66	66.71	+3	+1	40.72	11.75	+1	+10	35.21	11.93	−4	+3	30.76	6.91	−3	−6
27	45.51	66.94	+3	+6	40.54	11.84	0	+11	35.04	11.84	−4	0	30.64	6.66	−2	−7
28	45.36	67.17	+2	+9	40.36	11.92	−2	+9	34.87	11.75	−4	−4	30.53	6.41	−1	−8
29	45.21	67.39	+1	+10	40.18	12.00	−3	+6	34.70	11.65	−3	−6	30.42	6.16	+1	−6
30	45.06	67.61	−1	+10	40.00	12.08	−4	+2	34.53	11.55	−2	−7	30.30	5.90	+2	−4
31	44.91	67.83	−2	+8	39.82	12.15	−4	−2	34.36	11.44	0	−7	30.20	5.64	+3	−1
32					39.64	12.21	−3	−5					30.09	5.37	+4	+2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 19′ 50″	7.493	+7.426	+82° 20′ 0″	7.496	+7.429	+82° 20′ 10″	7.498	+7.431
60	7.496	+7.429	10	7.498	+7.431	20	7.501	+7.434

$\alpha_{1945.0} = 20^h\ 46^m\ 41^s.53$ $\delta_{1945.0} = +82°\ 19'\ 45''.67$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sa) 4 G. Octantis $5^{m}.63$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$1^h 40^m$	—85° 3′	in 0.01s	in 0.01″	$1^h 40^m$	—85° 3′	in 0.01s	in 0.01″	$1^h 40^m$	—85° 3′	in 0.01s	in 0.01″	$1^h 40^m$	—85° 2′	in 0.01s	in 0.01″
1	25.18	20.49	−2	+8	17.35	18.06	+6	+4	11.37	11.38	+6	+2	7.38	60.74	+1	−9
2	24.93	20.51	+1	+9	17.11	17.89	+6	0	11.19	11.08	+6	−2	7.31	60.36	−2	−10
3	24.67	20.52	+3	+8	16.87	17.72	+5	−3	11.02	10.77	+4	−5	7.24	59.99	−4	−10
4	24.42	20.52	+5	+6	16.63	17.53	+4	−7	10.85	10.46	+2	−8	7.17	59.61	−6	−8
5	24.16	20.52	+6	+3	16.40	17.35	+1	−9	10.68	10.15	0	−10	7.11	59.23	−6	−4
6	23.90	20.51	+6	−1	16.16	17.15	−1	−10	10.51	9.84	−3	−11	7.05	58.86	−6	0
7	23.65	20.49	+5	−5	15.93	16.95	−4	−10	10.35	9.52	−5	−9	7.00	58.48	−3	+3
8	23.39	20.47	+3	−8	15.70	16.75	−6	−8	10.19	9.20	−6	−6	6.95	58.10	0	+6
9	23.13	20.44	0	−10	15.47	16.54	−6	−4	10.03	8.88	−6	−2	6.91	57.72	+3	+7
10	22.88	20.40	−2	−10	15.24	16.32	−6	0	9.88	8.55	−5	+2	6.87	57.34	+6	+5
11	22.62	20.36	−5	−9	15.02	16.10	−4	+4	9.73	8.22	−2	+5	6.83	56.95	+7	+3
12	22.37	20.31	−6	−6	14.79	15.88	−1	+7	9.58	7.89	+1	+7	6.80	56.57	+6	−1
13	22.11	20.26	−6	−2	14.57	15.65	+2	+8	9.44	7.55	+4	+7	6.77	56.19	+4	−4
14	21.85	20.20	−5	+2	14.35	15.42	+5	+7	9.30	7.21	+6	+5	6.74	55.80	+1	−6
15	21.59	20.13	−3	+6	14.14	15.18	+6	+4	9.16	6.87	+7	+2	6.72	55.42	−2	−6
16	21.34	20.06	+1	+8	13.92	14.94	+6	0	9.03	6.53	+6	−2	6.70	55.03	−5	−4
17	21.08	19.98	+3	+8	13.71	14.69	+4	−3	8.90	6.18	+3	−5	*)6.69	54.65	−6	−1
18	20.83	19.89	+6	+6	13.50	14.44	+2	−5	8.77	5.83	0	−6	6.68	54.27	−6	+3
19	20.57	19.80	+7	+2	13.29	14.18	−1	−6	8.65	5.48	−3	−5	6.67	53.89	−5	+6
20	20.32	19.70	+6	−1	13.09	13.92	−4	−5	8.53	5.13	−5	−3	6.67	53.50	−3	+9
21	20.07	19.59	+4	−4	12.89	13.65	−6	−2	8.41	4.77	−6	0	6.67	53.12	0	+10
22	19.82	19.48	+1	−6	12.69	13.38	−6	+1	8.30	4.41	−6	+4	6.68	52.74	+2	+9
23	19.57	19.36	−2	−6	12.49	13.11	−5	+5	8.19	4.05	−4	+7	6.69	52.36	+4	+8
24	19.32	19.24	−5	−4	12.29	12.83	−3	+7	8.08	3.69	−2	+9	6.70	51.98	+5	+5
25	19.07	19.12	−6	−1	12.10	12.55	−1	+9	7.98	3.33	+1	+9	6.72	51.59	+6	+2
26	18.82	18.98	−6	+2	11.91	12.26	+1	+9	7.88	2.96	+3	+8	6.74	51.21	+5	−2
27	18.57	18.84	−5	+5	11.73	11.97	+3	+8	7.79	2.60	+5	+6	6.77	50.84	+4	−5
28	18.32	18.70	−3	+8	11.54	11.68	+5	+5	7.70	2.23	+6	+3	6.80	50.46	+2	−8
29	18.08	18.55	0	+9	11.37	11.38	+6	+2	7.61	1.86	+6	0	6.83	50.08	−1	−9
30	17.84	18.39	+2	+8					7.53	1.49	+5	−3	6.87	49.71	−3	−10
31	17.59	18.23	+4	+7					7.45	1.11	+3	−7	6.91	49.33	−5	−8
32	17.35	18.06	+6	+4					7.38	0.74	+1	−9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 2′ 40″	11.576	−11.533	−85° 3′ 0″	11.589	−11.546	−85° 3′ 20″	11.602	−11.559
50	11.583	−11.540	10	11.596	−11.553	30	11.609	−11.566

$\alpha_{1945.0} = 1^h\ 40^m\ 22^s.41$ $\delta_{1945.0} = -85°\ 2'\ 53''.58$

*) Tag der doppelten unteren Kulmination: April 17.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sa) 4 G. Octantis $5^{m}.63$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$1^h\ 40^m$	−85° 2′	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	−85° 2′	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	−85° 2′	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	−85° 2′	in $0^s.01$	in $0''.01$
	s	″			s	″			s	″			s	″		
1	6.91	49.33	−5	−8	10.06	38.76	−3	+4	15.98	31.75	+5	+6	23.59	29.46	+3	−5
2	6.96	48.96	−6	−6	10.22	38.46	0	+6	16.21	31.59	+7	+3	23.84	29.48	0	−7
3	7.01	48.59	−6	−2	10.38	38.17	+3	+6	16.44	31.43	+7	−1	24.09	29.51	−3	−7
4	7.06	48.22	−4	+2	10.54	37.88	+6	+4	16.67	31.29	+5	−4	24.34	29.54	−5	−5
5	7.12	47.85	−2	+5	10.71	37.60	+7	+1	16.91	31.14	+3	−7	24.58	29.58	−6	−1
6	7.18	47.48	+2	+6	10.88	37.32	+6	−2	17.15	31.01	−1	−8	24.83	29.62	−6	+3
7	7.24	47.12	+4	+6	11.05	37.04	+4	−6	17.39	30.88	−4	−7	25.07	29.67	−4	+6
8	7.31	46.75	+7	+4	11.23	36.77	+1	−8	17.63	30.75	−6	−4	25.32	29.72	−2	+9
9	7.38	46.39	+7	0	11.41	36.50	−2	−7	17.87	30.63	7	0	25.56	29.78	+1	+10
10	7.46	46.03	+6	−4	11.59	36.24	−5	−5	18.11	30.52	−6	+4	25.80	29.85	+3	+9
11	7.54	45.68	+3	−6	11.78	35.98	−6	−2	18.36	30.41	−4	+8	26.04	29.92	+5	+7
12	7.63	45.32	0	−7	11.97	35.72	−6	+2	18.60	30.31	−1	+10	26.28	30.00	+6	+4
13	7.71	44.96	−4	−6	12.16	35.47	−5	+6	18.85	30.21	+2	+10	26.52	30.09	+6	0
14	7.80	44.61	−6	−3	12.35	35.22	−3	+9	19.09	30.12	+4	+9	26.75	30.18	+5	−4
15	7.90	44.26	−7	+1	12.54	34.97	0	+10	19.34	30.03	+6	+6	26.98	30.27	+3	−7
16	7.99	43.92	−6	+5	12.74	34.74	+3	+10	19.59	29.95	+6	+2	27.21	30.37	0	−9
17	8.10	43.57	−4	+8	12.94	34.50	+5	+8	19.83	29.88	+6	−1	27.44	30.48	−2	−10
18	8.20	43.23	−1	+10	13.14	34.27	+6	+5	20.08	29.81	+4	−5	27.67	30.59	−4	−9
19	8.31	42.89	+1	+10	13.35	34.05	+6	+1	20.34	29.75	+2	−8	27.90	30.71	−6	−7
20	8.43	42.55	+4	+9	13.56	33.83	+5	−3	20.59	29.69	−1	−9	28.12	30.84	−6	−3
21	8.55	42.22	+5	+6	13.77	33.62	+3	−6	20.84	29.64	−3	−9	28.35	30.97	−6	0
22	8.67	41.89	+6	+3	13.98	33.41	+1	−8	21.09	29.59	−5	−8	28.57	31.10	−3	+4
23	8.79	41.56	+6	0	14.19	33.21	−2	−9	21.34	29.55	−6	−5	28.79	31.24	0	+7
24	8.92	41.24	+4	−4	14.40	33.01	−4	−9	21.59	29.52	−6	−2	29.00	31.38	+3	+7
25	9.05	40.91	+2	−7	14.62	32.81	−6	−7	21.84	29.49	−5	+2	29.22	31.53	+5	+6
26	9.18	40.60	0	−9	14.84	32.62	−7	−4	22.09	29.47	−2	+5	29.43	31.69	+7	+3
27	9.32	40.28	−3	−9	15.06	32.44	−6	0	22.34	29.46	+1	+7	29.64	31.85	+6	−1
28	9.46	39.97	−5	−8	15.29	32.26	−4	+3	22.59	29.45	+4	+7	29.85	32.02	+4	−4
29	9.61	39.66	−6	−6	15.52	32.08	−1	+6	22.84	29.44	+6	+5	30.05	32.19	+2	−6
30	9.75	39.36	−6	−3	15.75	31.91	+2	+7	23.09	29.44	+7	+1	30.25	32.37	−2	−7
31	9.91	39.06	−5	+1	15.98	31.75	+5	+6	23.34	29.45	+6	−2	30.45	32.55	−5	−5
32	10.06	38.76	−3	+4					23.59	29.46	+3	−5	30.65	32.74	−6	−2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 2′ 20″	11.563	−11.520	−85° 2′ 30″	11.570	−11.527	−85° 2′ 40″	11.576	−11.533
30	11.570	−11.527	40	11.576	−11.533	50	11.583	−11.540

$\alpha_{1945.0} = 1^h\ 40^m\ 22^s.41$ $\delta_{1945.0} = -85°\ 2'\ 53''.58$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sa) 4 G. Octantis $5^m.63$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$1^h\ 40^m$	$85°\ 2'$	$0.^s01$	$0.''01$	$1^h\ 40^m$	$85°\ 2'$	$0.^s01$	$0.''01$	$1^h\ 40^m$	$85°\ 2'$	$0.^s01$	$0.''01$	$1^h\ 40^m$	$85°\ 2'$	$0.^s01$	$0.''01$
	s	"			s	"			s	"			s	"		
1	30.65	32.74	−6	− 2	34.88	40.23	−4	+ 8	35.07	50.17	+6	+ 5	31.05	57.89	+4	− 4
2	30.84	32.93	−7	+ 2	34.96	40.53	−2	+10	34.99	50.47	+6	+ 1	30.86	58.08	+1	− 7
3	31.03	33.12	−5	+ 5	35.04	40.83	+1	+10	34.92	50.77	+5	− 2	30.66	58.27	−1	− 8
4	31.22	33.32	−3	+ 8	35.11	41.13	+4	+ 9	34.84	51.07	+3	− 5	30.46	58.45	−3	− 9
5	31.40	33.53	0	+10	35.17	41.43	+5	+ 7	34.75	51.36	+1	− 8	30.26	58.63	−5	− 7
6	31.58	33.74	+2	+10	35.23	41.73	+6	+ 3	34.66	51.65	−2	− 9	30.06	58.80	−6	− 5
7	31.76	33.95	+4	+ 8	35.29	42.04	+6	0	34.56	51.94	−4	− 9	29.85	58.97	−6	− 2
8	31.93	34.17	+6	+ 5	35.34	42.35	+4	− 4	34.46	52.23	−6	− 7	29.64	59.13	−5	+ 1
9	32.10	34.40	+6	+ 2	35.38	42.66	+2	− 7	34.36	52.52	−6	− 4	29.43	59.29	−2	+ 4
10	32.27	34.63	+5	− 2	35.42	42.97	0	− 9	34.25	52.80	−6	− 1	29.22	59.45	+1	+ 6
11	32.43	34.86	+4	− 5	35.46	43.28	−3	−10	34.14	53.08	−4	+ 2	29.00	59.59	+4	+ 6
12	32.60	35.09	+2	− 8	35.49	43.59	−5	− 9	34.02	53.35	−1	+ 5	28.78	59.73	+6	+ 4
13	32.75	35.33	−1	−10	35.52	43.90	−6	− 7	33.90	53.63	+2	+ 6	28.56	59.87	+7	0
14	32.90	35.57	−3	−10	35.54	44.22	−6	− 3	33.77	53.89	+5	+ 5	28.34	60.00	+7	− 4
15	33.05	35.82	−6	− 8	35.56	44.53	−5	0	33.64	54.16	+7	+ 2	28.11	60.12	+4	− 7
16	33.20	36.07	−6	− 5	35.57	44.85	−3	+ 4	33.51	54.42	+7	− 1	27.88	60.24	+1	− 9
17	33.33	36.33	−6	− 2	35.58 35.58	45.16 45.48	0 +4	+ 6 + 6	33.37	54.68	+5	− 5	27.65	60.35	−3	− 9
18	33.47	36.59	−4	+ 2	35.58	45.80	+6	+ 5	33.23	54.94	+3	− 8	27.42	60.46	−5	− 6
19	33.60	36.85	−2	+ 5	35.57	46.12	+7	+ 1	33.09	55.19	−1	− 8	27.19	60.56	−7	− 2
20	33.73	37.11	+2	+ 7	35.56	46.44	+6	− 2	32.94	55.44	−4	− 7	26.95	60.66	−7	+ 3
21	33.86	37.38	+5	+ 6	35.55	46.75	+4	− 6	32.79	55.68	−7	− 3	26.71	60.75	−5	+ 7
22	33.98	37.65	+7	+ 4	35.53	47.07	+1	− 7	32.63	55.92	−7	+ 1	26.47	60.83	−2	+10
23	34.10	37.92	+7	0	35.50	47.38	−3	− 7	32.47	56.16	−6	+ 6	26.23	60.90	+1	+11
24	34.21	38.20	+6	− 3	35.47	47.70	−5	− 5	32.30	56.39	−4	+ 9	25.99	60.97	+3	+10
25	34.32	38.48	+3	− 6	35.44	48.01	−7	− 1	32.13	56.62	−1	+11	25.75	61.04	+6	+ 8
26	34.42	38.77	−1	− 7	35.40	48.32	−7	+ 3	31.96	56.84	+2	+11	25.50	61.09	+6	+ 4
27	34.52	39.05	−4	− 6	35.35	48.63	−5	+ 7	31.78	57.06	+4	+10	25.25	61.14	+6	+ 1
28	34.62	39.35	−6	− 3	35.30	48.94	−3	+10	31.60	57.27	+6	+ 7	25.00	61.19	+4	− 3
29	34.71	39.64	−7	+ 1	35.25	49.25	0	+11	31.42	57.48	+6	+ 3	24.75	61.23	+2	− 6
30	34.80	39.93	−6	+ 5	35.19	49.56	+3	+10	31.24	57.69	+5	− 1	24.50	61.26	0	− 8
31	34.88	40.23	−4	+ 8	35.13	49.87	+5	+ 8	31.05	57.89	+4	− 4	24.25	61.28	−3	− 9
32					35.07	50.17	+6	+ 5					24.00	61.30	−5	− 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 2′ 30″	11.570	−11.527	−85° 2′ 40″	11.576	−11.533	−85° 3′ 0″	11.589	−11.546
40	11.576	−11.533	50	11.583	−11.540	10	11.596	−11.553

$\alpha_{1945.0} = 1^h\ 40^m\ 22.^s41$ $\delta_{1945.0} = -85°\ 2'\ 53.''58$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sb) ξ **Mensae** $5^m_.85$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 4^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 4^m$	82° 33′	$0^s.01$	$0''.01$
1	14.68	3.49	−3	+2	10.48	10.39	+1	+8	65.34	12.54	+2	+7	59.50	10.07	+3	−4
2	14.58	3.77	−2	+6	10.31	10.54	+2	+6	65.15	12.54	+3	+5	59.32	9.91	+2	−7
3	14.48	4.05	−1	+8	10.15	10.69	+3	+4	64.95	12.53	+3	+2	59.14	9.75	+1	−9
4	14.38	4.33	0	+8	9.97	10.83	+3	0	64.76	12.52	+3	−1	58.97	9.58	0	−10
5	14.27	4.60	+1	+8	9.80	10.96	+3	−4	64.56	12.51	+3	−5	58.79	9.41	−1	−9
6	14.16	4.87	+3	+5	9.63	11.08	+3	−7	64.37	12.49	+2	−8	58.62	9.24	−2	−6
7	14.05	5.14	+3	+2	9.45	11.20	+2	−9	64.17	12.46	+1	−10	58.45	9.05	−2	−2
8	13.93	5.40	+3	−1	9.27	11.32	0	−10	63.98	12.42	−1	−10	58.28	8.87	−2	+3
9	13.82	5.66	+3	−5	9.10	11.43	−1	−9	63.79	12.38	−2	−8	58.12	8.68	−1	+7
10	13.70	5.91	+2	−8	8.91	11.53	−2	−6	63.60	12.34	−2	−4	57.95	8.48	0	+9
11	13.58	6.16	+1	−10	8.73	11.63	−3	−2	63.40	12.29	−2	+1	57.79	8.28	+2	+9
12	13.45	6.40	−1	−10	8.55	11.73	−2	+3	63.21	12.23	−2	+5	57.63	8.07	+3	+6
13	13.32	6.65	−2	−8	8.37	11.82	−1	+7	63.02	12.17	0	+8	57.47	7.86	+3	+2
14	13.20	6.89	−2	−4	8.18	11.91	0	+9	62.83	12.10	+1	+9	57.31	7.65	+2	−2
15	13.06	7.12	−2	0	8.00	11.99	+1	+9	62.63	12.03	+2	+8	57.15	7.44	+1	−6
16	12.93	7.35	−2	+5	7.81	12.06	+2	+7	62.44	11.96	+3	+5	57.00	7.22	0	−8
17	12.79	7.58	−1	+8	7.63	12.13	+2	+3	62.25	11.88	+2	0	56.85	7.00	−2	−8
18	12.65	7.80	0	+9	7.44	12.20	+2	−1	62.06	11.79	+1	−3	56.70	6.77	−3	−6
19	12.51	8.01	+2	+8	7.25	12.25	+1	−5	61.87	11.70	0	−6	56.55	6.54	−4	−2
20	12.37	8.22	+2	+5	7.06	12.30	0	−7	61.69	11.61	−1	−7	56.40	6.30	−4	+1
21	12.22	8.43	+2	+1	6.87	12.35	−2	−7	61.50	11.51	−2	−7	56.25	6.06	−3	+5
22	12.07	8.63	+2	−2	6.68	12.39	−3	−6	61.31	11.40	−3	−4	56.11	5.82	−2	+7
23	11.92	8.83	+1	−6	6.49	12.43	−3	−3	61.13	11.29	−4	−1	55.96	5.57	−1	+8
24	11.77	9.02	0	−7	6.31	12.47	−3	0	60.94	11.17	−3	+2	55.82	5.32	+1	+8
25	11.61	9.21	−2	−7	6.12	12.49	−3	+3	60.76	11.05	−3	+5	55.68	5.07	+2	+7
26	11.46	9.40	−3	−5	5.92	12.51	−2	+6	60.58	10.93	−2	+7	55.55	4.81	+3	+4
27	11.30	9.57	−3	−2	5.73	12.53	−1	+8	60.39	10.80	0	+8	55.41	4.55	+3	+1
28	11.14	9.75	−3	+1	5.54	12.54	0	+8	60.21	10.66	+1	+8	55.28	4.29	+3	−2
29	10.98	9.92	−3	+4	5.34	12.54	+2	+7	60.03	10.52	+2	+6	55.15	4.02	+2	−6
30	10.81	10.08	−2	+7					59.85	10.38	+3	+3	55.02	3.75	+2	−8
31	10.65	10.24	0	+8					59.67	10.23	+3	0	54.90	3.48	0	−10
32	10.48	10.39	+1	+8					59.50	10.07	+3	−4				

δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 0″	7.712	−7.647	−82° 33′ 10″	7.715	−7.650
10	7.715	−7.650	20	7.718	−7.653

$\alpha_{1945.0} = 5^h\ 5^m\ 3^s.36$ $\delta_{1945.0} = -82°\ 32'\ 50''.25$

8b) ξ Mensae $5^m.85$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in $0^s.01$	Mai ☾ Glieder in $0''.01$	Juni AR.	Juni Dekl.	Juni ☾ Glieder in $0^s.01$	Juni ☾ Glieder in $0''.01$	Juli AR.	Juli Dekl.	Juli ☾ Glieder in $0^s.01$	Juli ☾ Glieder in $0''.01$	August AR.	August Dekl.	August ☾ Glieder in $0^s.01$	August ☾ Glieder in $0''.01$
	$5^h\ 4^m$	$-82°\ 32'$			$5^h\ 4^m$	$-82°\ 32'$			$5^h\ 4^m$	$-82°\ 32'$			$5^h\ 4^m$	$-82°\ 32'$		
	s	"			s	"			s	"			s	"		
1	54.90	63.48	0	−10	52.27	53.74	−2	−1	52.27	43.46	0	+8	54.86	34.44	+3	+1
2	54.78	63.20	−1	−9	52.23	53.40	−2	+4	52.31	43.13	+2	+9	54.98	34.20	+2	−3
3	54.66	62.92	−2	−7	52.18	53.06	−1	+7	52.36	42.80	+3	+7	55.10	33.97	+1	−7
4	54.54	62.64	−2	−3	52.15	52.72	+1	+9	52.41	42.47	+3	+3	55.23	33.74	0	−8
5	54.42	62.36	−2	+1	52.11	52.38	+2	+8	52.47	42.14	+3	−1	55.36	33.52	−2	−7
6	54.31	62.07	−1	+5	52.08	52.03	+3	+5	52.52	41.82	+2	−5	55.49	33.30	−3	−5
7	54.20	61.78	0	+8	52.05	51.69	+3	+1	52.58	41.50	0	−8	55.62	33.09	−3	−1
8	54.09	61.48	+1	+9	*)52.03	51.34	+2	−3	52.64	41.18	−1	−8	55.75	32.89	−3	+3
9	53.99	61.19	+3	+7	52.01	51.00	+1	−6	52.70	40.87	−2	−7	55.88	32.69	−2	+6
10	53.89	60.88	+3	+4	51.99	50.65	0	−8	52.77	40.56	−3	−4	56.02	32.49	−1	+8
11	53.79	60.58	+3	0	51.98	50.30	−2	−8	52.84	40.25	−4	0	56.16	32.29	0	+9
12	53.69	60.27	+2	−4	51.96	49.95	−3	−6	52.91	39.94	−3	+4	56.29	32.10	+1	+8
13	53.59	59.96	0	−7	51.95	49.61	−4	−2	52.98	39.63	−2	+7	56.43	31.92	+2	+6
14	53.50	59.66	−1	−8	51.94	49.25	−4	+2	53.06	39.33	−1	+8	56.57	31.74	+3	+3
15	53.41	59.34	−3	−7	51.94	48.91	−3	+5	53.14	39.03	0	+9	56.72	31.57	+3	0
16	53.32	59.03	−4	−4	51.94	48.57	−2	+8	53.22	38.73	+1	+8	56.86	31.40	+3	−4
17	53.23	58.71	−4	0	51.94	48.22	0	+9	53.31	38.44	+2	+5	57.01	31.24	+2	−7
18	53.15	58.39	−3	+4	51.94	47.87	+1	+8	53.39	38.15	+3	+2	57.16	31.08	+1	−9
19	53.07	58.07	−2	+7	51.95	47.53	+2	+7	53.48	37.86	+3	−2	57.31	30.93	0	−10
20	52.99	57.75	−1	+8	51.96	47.18	+3	+4	53.57	37.58	+2	−6	57.46	30.79	−1	−8
21	52.91	57.42	0	+9	51.98	46.84	+3	0	53.67	37.30	+2	−8	57.61	30.65	−2	−5
22	52.84	57.09	+1	+8	51.99	46.49	+3	−3	53.76	37.02	0	−10	57.77	30.51	−2	−1
23	52.77	56.76	+2	+5	52.01	46.15	+2	−7	53.86	36.74	−1	−9	57.92	30.39	−2	+3
24	52.70	56.44	[illegible]	+2	52.03	45.81	+1	−9	53.96	36.47	−2	−7	58.07	30.26	−1	+7
25	52.63	56.10	+3	−1	52.05	45.47	0	−10	54.07	36.20	−2	−4	58.23	30.15	0	+9
26	52.57	55.77	+3	−5	52.08	45.13	−1	−9	54.17	35.94	−2	+1	58.39	30.04	+2	+9
27	52.51	55.44	+2	−7	52.11	44.79	−2	−6	54.28	35.68	−2	+5	58.55	29.93	+3	+6
28	52.46	55.10	+1	−9	52.15	44.45	−2	−2	54.39	35.42	−1	+8	58.71	29.83	+3	+2
29	52.40	54.76	0	−9	52.19	44.12	−2	+2	54.50	35.17	+1	+9	58.87	29.74	+2	−2
30	52.36	54.43	−2	−8	52.23	43.79	−1	+6	54.62	34.92	+2	+8	59.03	29.65	+1	−6
31	52.31	54.08	−2	−5	52.27	43.46	0	+8	54.74	34.68	+3	+5	59.19	29.57	0	−8
32	52.27	53.74	−2	−1					54.86	34.44	+3	+1	59.35	29.49	−2	−8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 32′ 20″	7.701	−7.636	−82° 32′ 40″	7.707	−7.642	−82° 33′ 0″	7.712	−7.647
30	7.704	−7.639	50	7.710	−7.644	10	7.715	−7.650

$\alpha_{1945.0} = 5^h\ 5^m\ 3^s.36$ $\delta_{1945.0} = -82°\ 32'\ 50''.25$

*) Tag der doppelten unteren Kulmination: Juni 8.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sb) ξ Mensae $5^{m}.85$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^{h}\ 4^{m}$	82° 32′	$0^{s}.01$	$0''.01$	$5^{h}\ 5^{m}$	82° 32′	$0^{s}.01$	$0''.01$	$5^{h}\ 5^{m}$	82° 32′	$0^{s}.01$	$0''.01$	$5^{h}\ 5^{m}$	82° 32′	$0^{s}.01$	$0''.01$
	s	″			s	″			s	″			s	″		
1	59.35	29.49	−2	−8	4.27	30.10	−4	0	8.28	36.22	0	+9	9.85	45.56	+2	+5
2	59.51	29.42	−3	−6	4.43	30.22	−3	+4	8.38	36.49	+1	+9	9.85	45.89	+3	+1
3	59.67	29.35	−4	−3	4.58	30.34	−2	+7	8.47	36.77	+2	+7	9.85	46.22	+2	−2
4	59.84	29.30	−4	+1	4.73	30.47	−1	+8	8.56	37.05	+2	+4	9.85	46.56	+2	−6
5	60.00	29.25	−3	+5	4.88	30.60	0	+9	8.65	37.33	+3	0	9.84	46.89	+1	−8
6	60.17	29.20	−2	+7	5.03	30.74	+1	+8	8.73	37.62	+2	−3	9.83	47.22	0	−9
7	60.33	29.16	−1	+9	5.18	30.88	+2	+6	8.81	37.91	+2	−6	9.82 / 9.80	47.56 / 47.89	−1 / −2	−9 / −7
8	60.50	29.13	+1	+9	5.33	31.03	+3	+2	8.89	38.21	+1	−9	9.78	48.23	−2	−4
9	60.67	29.11	+2	+7	5.47	31.19	+3	−1	8.97	38.51	0	−10	9.76	48.56	−2	0
10	60.84	29.09	+3	+4	5.61	31.35	+3	−5	9.04	38.80	−1	−9	9.73	48.89	−1	+4
11	61.00	29.07	+3	+1	5.76	31.52	+2	−8	9.11	39.11	−2	−6	9.70	49.22	0	+7
12	61.17	29.06	+3	−3	5.90	31.69	+1	−10	9.18	39.41	−2	−3	9.66	49.55	+1	+9
13	61.34	29.06	+2	−6	6.04	31.87	0	−10	9.24	39.72	−2	+2	9.63	49.88	+3	+8
14	61.50	29.07	+1	−9	6.17	32.05	−1	−8	9.30	40.03	−1	+6	9.58	50.21	+3	+5
15	61.67	29.08	0	−10	6.31	32.24	−2	−5	9.36	40.34	+1	+8	9.54	50.53	+4	+1
16	61.84	29.10	−1	−9	6.44	32.44	−2	−1	9.41	40.65	+2	+9	9.49	50.85	+3	−4
17	62.00	29.12	−2	−7	6.57	32.64	−2	+4	9.46	40.97	+3	+7	9.44	51.17	+1	−7
18	62.17	29.15	−2	−3	6.70	32.85	0	+7	9.51	41.29	+3	+3	9.39	51.49	0	−9
19	62.33	29.19	−2	+1	6.83	33.06	+1	+9	9.56	41.61	+3	−1	9.34	51.81	−2	−8
20	62.50	29.23	−1	+5	6.96	33.27	+2	+8	9.60	41.93	+2	−5	9.28	52.13	−3	−5
21	62.66	29.28	0	+8	7.08	33.49	+3	+5	9.64	42.25	0	−8	9.22	52.45	−4	−1
22	62.83	29.33	+1	+9	7.20	33.72	+3	+1	9.68	42.57	−1	−9	9.15	52.76	−4	+3
23	62.99	29.39	+2	+7	7.32	33.95	+2	−3	9.71	42.90	−3	−7	9.09	53.07	−3	+7
24	63.15	29.46	+3	+4	7.44	34.18	+1	−7	9.74	43.22	−4	−4	9.01	53.38	−2	+9
25	63.32	29.53	+3	0	7.55	34.42	0	−8	9.76	43.55	−4	+1	8.94	53.68	0	+10
26	63.48	29.61	+2	−4	7.66	34.67	−2	−8	9.79	43.88	−4	+5	8.86	53.98	+1	+9
27	63.63	29.70	0	−7	7.77	34.92	−3	−6	9.80	44.22	−3	+8	8.78	54.28	+2	+6
28	63.79	29.79	−1	−8	7.88	35.17	−4	−2	9.82	44.55	−1	+9	8.70	54.58	+2	+3
29	63.95	29.89	−3	−7	7.98	35.43	−4	+2	9.83	44.89	0	+9	8.61	54.88	+3	−1
30	64.11	29.99	−4	−4	8.08	35.69	−3	+6	9.84	45.22	+1	+8	8.53	55.17	+2	−4
31	64.27	30.10	−4	0	8.18	35.95	−2	+8	9.85	45.56	+2	+5	8.43	55.46	+1	−7
32					8.28	36.22	0	+9					8.34	55.74	0	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 32′ 20″	7.701	−7.636	−82° 32′ 30″	7.704	−7.639	−82° 32′ 50″	7.710	−7.644
30	7.704	−7.639	40	7.707	−7.642	60	7.712	−7.647

$\alpha_{1945.0} = 5^{h}\ 5^{m}\ 3^{s}.36$ $\delta_{1945.0} = -82°\ 32'\ 50''.25$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

8c) ζ Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in		Februar AR.	Februar Dekl.	Februar ☾ Glieder in		März AR.	März Dekl.	März ☾ Glieder in		April AR.	April Dekl.	April ☾ Glieder in	
	$9^h 5^m$	$-85° 26'$	$0^s.01$	$0''.01$	$9^h 5^m$	$-85° 26'$	$0^s.01$	$0''.01$	$9^h 5^m$	$-85° 26'$	$0^s.01$	$0''.01$	$9^h 5^m$	$-85° 27'$	$0^s.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	22.78	31.50	−2	−8	24.22	42.56	−6	+3	21.39	53.03	−3	+7	14.80	1.89	+5	+5
2	22.91	31.83	−4	−6	24.19	42.94	−5	+6	21.23	53.36	−1	+8	14.54	2.11	+7	+2
3	23.02	32.16	−6	−3	24.15	43.32	−3	+8	21.06	53.69	+2	+8	14.28	2.33	+8	−1
4	23.13	32.49	−6	+1	24.11	43.69	0	+9	20.89	54.02	+4	+7	14.02	2.55	+7	−4
5	23.24	32.82	−5	+4	24.07	44.07	+3	+8	20.72	54.35	+6	+5	13.76	2.77	+5	−6
6	23.34	33.16	−4	+7	{24.02 / 23.96}	{44.44 / 44.81}	{+5 / +7}	{+6 / +3}	20.54	54.67	+8	+1	13.49	2.98	+2	−7
7	23.43	33.50	−2	+8	23.90	45.19	+8	−1	20.36	55.00	+8	−3	13.22	3.18	−1	−5
8	23.52	33.84	+1	+8	23.83	45.56	+7	−4	20.17	55.31	+6	−6	12.95	3.38	−4	+2
9	23.61	34.19	+3	+7	23.76	45.92	+5	−7	19.99	55.63	+4	−7	12.68	3.57	−6	+1
10	23.69	34.53	+6	+5	23.68	46.29	+2	−8	19.79	55.94	0	−7	12.41	3.76	−6	+5
11	23.76	34.88	+7	+1	23.60	46.66	−1	−7	19.60	56.25	−3	−5	12.14	3.94	−4	+8
12	23.83	35.23	+7	−3	23.52	47.03	−4	−4	19.40	56.55	−5	−1	11.86	4.12	−2	+9
13	23.90	35.59	+6	−6	23.43	47.40	−6	0	19.20	56.85	−6	+3	11.59	4.29	+1	+7
14	23.96	35.94	+4	−8	23.34	47.76	−6	+4	19.00	57.15	−6	+6	11.31	4.46	+3	+4
15	24.02	36.30	0	−8	23.24	48.13	−5	+7	18.79	57.45	−4	+8	11.03	4.63	+5	−1
16	24.07	36.66	−3	−6	23.14	48.49	−3	+8	18.58	57.74	−1	+8	10.75	4.79	+5	−5
17	24.12	37.02	−5	−2	23.03	48.85	0	+7	18.37	58.03	+2	+5	10.47	4.94	+4	−8
18	24.16	37.38	−6	+2	22.92	49.21	+3	+4	18.15	58.31	+4	+2	10.18	5.09	+1	−10
19	24.20	37.75	−6	+5	22.80	49.56	+4	0	17.93	58.59	+5	−3	9.90	5.24	−1	−10
20	24.23	38.11	−4	+8	22.68	49.92	+5	−4	17.70	58.87	+4	−6	9.61	5.38	−4	−8
21	24.25	38.48	−2	+8	22.55	50.27	+4	−7	17.48	59.14	+3	−9	9.32	5.51	−6	−5
22	24.27	38.85	+1	+6	22.42	50.62	+2	−9	17.24	59.41	0	−10	9.03	5.64	−6	−1
23	24.29	39.22	+3	+3	22.29	50.98	−1	−9	17.01	59.67	−2	−9	8.74	5.77	−6	+2
24	24.30	39.59	+5	−1	22.15	51.32	−3	−8	16.78	59.93	−5	−7	8.46	5.89	−5	+5
25	24.31	39.96	+5	−5	22.01	51.67	−5	−5	16.54	60.19	−6	−3	8.17	6.01	−3	+7
26	24.31	40.32	+3	−8	21.86	52.01	−6	−2	16.30	60.45	−6	0	7.88	6.12	−1	+8
27	24.31	40.69	+1	−9	21.71	52.35	−6	+2	16.05	60.70	−6	+3	7.59	6.22	+2	+7
28	24.30	41.07	−1	−9	21.55	52.69	−5	+5	15.81	60.94	−4	+6	7.30	6.32	+4	+6
29	24.29	41.44	−4	−7	21.39	53.03	−3	+7	15.56	61.19	−2	+8	7.00	6.42	+6	+3
30	24.27	41.81	−5	−4					15.31	61.42	0	+8	6.71	6.50	+7	0
31	24.25	42.19	−6	0					15.06	61.66	+3	+7	6.42	6.58	+7	−4
32	24.22	42.56	−6	+3					14.80	61.89	+5	+5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 26′ 30″	12.583	−12.543	−85° 26′ 40″	12.590	−12.551	−85° 27′ 0″	12.606	−12.566
40	12.590	−12.551	50	12.598	−12.558	10	12.613	−12.574

$\alpha_{1945.0} = 9^h\ 5^m\ 4^s.31$ $\delta_{1945.0} = -85°\ 26'\ 45''.80$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sc) ζ Octantis 5^m.38

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h\ 4^m$	$-85°\ 27'$	in $0^s.01$	in $0''.01$	$9^h\ 4^m$	$-85°\ 27'$	in $0^s.01$	in $0''.01$	$9^h\ 4^m$	$-85°\ 26'$	in $0^s.01$	in $0''.01$	$9^h\ 4^m$	$-85°\ 26'$	in $0^s.01$	in $0''.01$
1	$66^s.42$	$6''.58$	+7	−4	$57^s.48$	$6''.54$	−2	−5	$50^s.39$	$61''.83$	−6	+4	$46^s.32$	$53''.40$	+2	+7
2	66.12	6.66	+6	−6	57.21	6.45	−4	−2	50.29	61.60	−5	+8	46.26	53.09	+4	+3
3	65.82	6.74	+3	−7	56.93	6.36	−5	+2	50.01	61.38	−2	+9	46.20	52.79	+5	−1
4	65.53	6.81	0	−6	56.67	6.26	−5	+6	49.82	61.14	+1	+9	46.15	52.48	+5	−6
5	65.23	6.87	−3	−4	56.40	6.16	−4	+9	49.64	60.91	+3	+6	46.10	52.16	+3	−9
6	64.94	6.93	−5	0	56.14	6.05	−1	+10	49.47	60.67	+5	+2	46.06	51.85	+1	−10
7	64.64	6.98	−6	+4	55.88	5.94	+2	+8	49.29	60.43	+6	−3	46.02	51.54	−2	−9
8	64.35	7.02	−5	+8	55.62	5.82	+4	+4	49.13	60.18	+5	−7	*)45.99	51.22	−5	−7
9	64.05	7.06	−3	+9	55.36	5.70	+5	0	48.96	59.93	+2	−9	45.96	50.91	−6	−3
10	63.76	7.10	0	+9	55.11	5.57	+5	−5	48.80	59.68	0	−10	45.94	50.59	−7	0
11	63.46	7.13	+3	+6	54.86	5.44	+4	−8	48.65	59.42	−3	−8	45.92	50.27	−6	+4
12	63.17	7.15	+5	+2	54.61	5.30	+1	−10	48.50	59.16	−5	−6	45.91	49.96	−5	+6
13	62.88	7.17	+5	−3	54.36	5.16	−2	−10	48.35	58.90	−7	−2	45.90	49.64	−2	+8
14	62.58	7.19	+4	−7	54.12	5.02	−5	−8	48.20	58.64	−7	+2	45.89	49.32	0	+8
15	62.29	7.20	+2	−10	53.88	4.87	−6	−4	48.06	58.37	−6	+5	45.90	49.01	+3	+7
16	62.00	7.20	0	−10	53.64	4.71	−7	0	47.92	58.10	−4	+7	45.90	48.69	+5	+5
17	61.71	7.20	−3	−9	53.40	4.55	−7	+3	47.79	57.82	−1	+8	45.91	48.37	+7	+2
18	61.42	7.20	−5	−6	53.17	4.39	−5	+6	47.66	57.55	+1	+8	45.93	48.06	+7	−2
19	61.13	7.18	−7	−3	52.93	4.22	−3	+8	47.54	57.26	+4	+6	45.95	47.74	+7	−5
20	60.84	7.17	−7	+1	52.71	4.04	0	+8	47.42	56.98	+6	+3	45.98	47.43	+5	−7
21	60.56	7.14	−6	+4	52.48	3.86	+2	+7	47.30	56.69	+7	0	46.01	47.11	+2	−7
22	60.27	7.11	−4	+6	52.26	3.68	+5	+5	47.19	56.40	+7	−4	46.05	46.79	−1	−6
23	59.98	7.08	−2	+8	52.03	3.49	+6	+2	47.08	56.12	+6	−6	46.09	46.48	−4	−3
24	59.70	7.04	+1	+7	51.82	3.30	+7	−2	46.97	55.82	+3	−8	46.13	46.17	−6	+1
25	59.41	7.00	+3	+6	51.60	3.10	+7	−5	46.87	55.53	0	−7	46.18	45.86	−6	+5
26	59.13	6.95	+5	+4	51.39	2.90	+5	−7	46.78	55.23	−3	−5	46.24	45.55	−5	+8
27	58.85	6.90	+7	+1	51.18	2.69	+2	−8	46.69	54.93	−5	−1	46.30	45.24	−2	+9
28	58.57	6.84	+7	−3	50.98	2.48	−1	−6	46.61	54.63	−6	+3	46.36	44.93	+1	+8
29	58.30	6.77	+6	−5	50.78	2.27	−3	−4	46.53	54.33	−5	+6	46.43	44.63	+3	+5
30	58.02	6.70	+4	−7	50.58	2.05	−5	0	46.46	54.02	−4	+9	46.51	44.33	+5	0
31	57.75	6.62	+1	−7	50.39	1.83	−6	+4	46.39	53.71	−1	+9	46.59	44.03	+5	−4
32	57.48	6.54	−2	−5					46.32	53.40	+2	+7	46.67	43.72	+4	−8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 26′ 40″	12.590	−12.551	−85° 26′ 50″	12.598	−12.558	−85° 27′ 0″	12.606	−12.566
50	12.598	−12.558	60	12.606	−12.566	10	12.613	−12.574

$\alpha_{1945.0} = 9^h\ 5^m\ 4^s.31$ $\delta_{1945.0} = -85°\ 26'\ 45''.80$

*) Tag der doppelten unteren Kulmination: Aug. 8.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sc) ζ Octantis 5ᵐ.38

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h 4^m$	$-85° 26'$	in 0.01^s	in $0.01''$	$9^h 4^m$	$-85° 26'$	in 0.01^s	in $0.01''$	$9^h 4^m$	$-85° 26'$	in 0.01^s	in $0.01''$	$9^h 5^m$	$-85° 26'$	in 0.01^s	in $0.01''$
1	46.67	43.72	+4	−8	51.23	36.11	−3	−9	58.89	32.84	−7	+3	6.71	35.47	−1	+7
2	46.76	43.43	+2	−10	51.44	35.91	−5	−6	59.16	32.84	−5	+6	6.95	35.66	+1	+7
3	46.85	43.13	−1	−10	51.65	35.73	−7	−2	59.43	32.84	−3	+7	7.18	35.85	+4	+5
4	46.95	42.84	−4	−8	51.87	35.55	−7	+1	59.70	32.84	0	+7	7.41	36.04	+6	+2
5	47.05	42.55	−6	−5	52.09	35.37	−6	+4	59.97	32.86	+2	+6	7.64	36.24	+7	−1
6	47.16	42.26	−7	−1	52.32	35.20	−4	+7	60.24	32.88	+5	+4	7.86	36.45	+7	−4
7	47.28	41.97	−7	+3	52.54	35.04	−2	+8	60.51	32.91	+6	+2	8.08	36.66	+6	−6
8	47.40	41.69	−6	+6	52.78	34.88	+1	+8	60.78	32.94	+7	−1	8.30	36.88	+4	−7
9	47.52	41.41	−3	+8	53.01	34.73	+3	+6	61.05	32.98	+7	−4	8.52	37.10	+1	−7
10	47.65	41.13	−1	+8	53.24	34.58	+6	+4	61.32	33.02	+5	−6	8.73	37.33	−2	−5
11	47.78	40.85	+2	+8	53.48	34.44	+7	+1	61.59	33.08	+3	−7	8.94	37.56	−4	−1
12	47.91	40.58	+4	+6	53.72	34.30	+7	−2	61.86	33.14	0	−6	9.14	37.80	−5	+3
13	48.05	40.31	+6	+3	53.96	34.17	+7	−5	62.13	33.20	−3	−3	9.34	38.05	−5	+7
14	48.19	40.05	+7	0	54.20	34.05	+5	−7	62.40	33.27	−5	+1	9.54	38.29	−3	+10
15	48.34	39.78	+7	−4	54.45	33.93	+2	−7	62.66	33.35	−5	+5	9.74	38.55	0	+10
16	48.49	39.53	+6	−6	54.70	33.81	−1	−5	62.92	33.44	−4	+9	9.93	38.81	+3	+8
17	48.65	39.27	+3	−7	54.95	33.71	−4	−2	63.19	33.53	−2	+10	10.12	39.07	+5	+5
18	48.81	39.02	0	−6	55.20	33.61	−5	+3	63.45	33.63	+1	+10	10.30	39.34	+6	0
19	48.97	38.77	−3	−4	55.46	33.51	−5	+7	63.71	33.73	+4	+7	10.48	39.61	+6	−5
20	49.14	38.52	−5	0	55.71	33.42	−4	+9	63.97	33.84	+6	+2	10.66	39.89	+4	−9
21	49.31	38.28	−6	+4	55.97	33.33	−1	+10	64.23	33.96	+6	−3	10.83	40.17	+1	−11
22	49.48	38.05	−5	+7	56.23	33.26	+2	+8	64.49	34.08	+5	−8	11.00	40.46	−2	−10
23	49.66	37.81	−3	+9	56.49	33.19	+4	+4	64.74	34.21	+2	−10	11.16	40.75	−5	−8
24	49.84	37.58	0	+9	56.75	33.12	+6	−1	65.00	34.35	−1	−11	11.32	41.04	−7	−4
25	50.03	37.36	+3	+6	57.01	33.06	+5	−6	65.25	34.49	−4	−9	11.47	41.34	−8	0
26	50.22	37.14	+5	+2	57.27	33.01	+4	−9	65.50	34.64	−6	−6	11.62	41.64	−7	+4
27	50.42	36.93	+5	−3	57.54	32.97	+1	−11	65.74	34.80	−8	−2	11.77	41.95	−5	+6
28	50.62	36.72	+4	−7	57.81	32.93	−2	−10	65.99	34.96	−7	+2	11.91	42.26	−2	+7
29	50.82	36.51	+2	−10	58.08	32.90	−5	−8	66.23	35.13	−6	+5	12.05	42.57	0	+7
30	51.02	36.31	0	−10	58.35	32.87	−7	−4	66.47	35.30	−4	+7	12.18	42.89	+3	+6
31	51.23	36.11	−3	−9	58.62	32.85	−7	0	66.71	35.47	−1	+7	12.31	43.21	+5	+3
32					58.89	32.84	−7	+3					12.44	43.53	+6	0

δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 26′ 30″	12.583	−12.543	−85° 26′ 40″	12.590	−12.551
40	12.590	−12.551	50	12.598	−12.558

$\alpha_{1945.0} = 9^h\ 5^m\ 4^s.31$ $\qquad$ $\delta_{1945.0} = -85°\ 26'\ 45''.80$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sd) ι Octantis $5^m\!.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in 0.01ˢ	Januar ☾ Glieder in 0.01″	Februar AR.	Februar Dekl.	Februar ☾ Glieder in 0.01ˢ	Februar ☾ Glieder in 0.01″	März AR.	März Dekl.	März ☾ Glieder in 0.01ˢ	März ☾ Glieder in 0.01″	April AR.	April Dekl.	April ☾ Glieder in 0.01ˢ	April ☾ Glieder in 0.01″
	12^h48^m	−84° 49′			12^h49^m	−84° 49′			12^h49^m	−84° 49′			12^h49^m	−84° 49′		
	s	″			s	″			s	″			s	″		
1	58.60	3.80	+4	−8	6.06	9.09	−5	−4	10.94	17.69	−6	−2	13.32	29.29	−3	+9
2	58.85	3.88	+2	−9	6.27	9.35	−6	−1	11.06	18.05	−6	+2	13.34	29.67	−1	+10
3	59.11	3.97	−1	−8	6.48	9.61	−6	+3	11.19	18.40	−6	+5	13.35	30.05	+2	+9
4	59.37	4.06	−4	−6	6.69	9.87	−6	+6	11.31	18.76	−5	+8	13.37 13.38	30.43 30.82	+4 +6	+7 +4
5	59.62	4.16	−5	−3	6.89	10.14	−4	+9	11.43	19.12	−3	+10	13.38	31.20	+6	+1
6	59.88	4.27	−6	+1	7.09	10.41	−2	+10	11.55	19.48	0	+10	13.39	31.58	+5	−3
7	60.14	4.38	−6	+4	7.29	10.69	+1	+10	11.66	19.84	+3	+9	13.38	31.96	+3	−5
8	60.39	4.50	−5	+7	7.49	10.97	+4	+8	11.77	20.21	+5	+6	13.38	32.34	−1	−6
9	60.64	4.63	−3	+9	7.68	11.25	+6	+4	11.87	20.57	+6	+3	13.37	32.71	−4	−5
10	60.89	4.76	0	+10	7.88	11.54	+7	+1	11.98	20.94	+6	−1	13.35	33.09	−6	−2
11	61.14	4.90	+3	+9	8.06	11.83	+6	−3	12.07	21.31	+4	−5	13.33	33.47	−7	+1
12	61.39	5.05	+5	+6	8.25	12.13	+4	−6	12.17	21.68	+1	−6	13.31	33.84	−6	+4
13	61.64	5.20	+7	+2	8.43	12.43	0	−7	12.26	22.05	−2	−6	13.29	34.21	−4	+6
14	61.89	5.35	+7	−2	8.62	12.74	−3	−6	12.35	22.43	−5	−5	13.26	34.59	−1	+6
15	62.14	5.51	+5	−5	8.79	13.04	−6	−4	12.44	22.80	−7	−2	13.23	34.96	+3	+5
16	62.38	5.68	+2	−7	8.97	13.36	−7	0	12.52	23.18	−7	+2	13.20	35.33	+6	+1
17	62.63	5.85	−1	−7	9.14	13.67	−6	+3	12.60	23.56	−5	+5	13.16	35.69	+7	−2
18	62.87	6.03	−4	−5	9.31	13.99	−4	+5	12.67	23.93	−2	+6	13.12	36.06	+7	−6
19	63.11	6.22	−6	−3	9.47	14.31	−1	+6	12.74	24.31	+1	+5	13.07	36.42	+6	−9
20	63.35	6.41	−7	+1	9.63	14.64	+2	+5	12.81	24.69	+4	+3	13.03	36.78	+3	−10
21	63.58	6.60	−6	+4	9.79	14.97	+5	+2	12.87	25.07	+6	0	12.97	37.14	0	−10
22	63.82	6.80	−3	+6	9.94	15.30	+7	−1	12.93	25.45	+7	−4	12.92	37.50	−2	−8
23	64.05	7.01	0	+6	10.09	15.63	+7	−5	12.98	25.84	+7	−7	12.86	37.86	−4	−5
24	64.28	7.22	+3	+4	10.24	15.97	+6	−7	13.03	26.22	+5	−9	12.80	38.22	−6	−2
25	64.52	7.44	+5	+1	10.39	16.31	+4	−9	13.08	26.60	+2	−10	12.73	38.57	−6	+2
26	64.74	7.66	+7	−2	10.53	16.65	+1	−9	13.13	26.99	−1	−9	12.67	38.92	−6	+5
27	64.97	7.88	+7	−5	10.67	17.00	−2	−8	13.17	27.37	−3	−7	12.59	39.27	−4	+8
28	65.19	8.12	+5	−8	10.80	17.34	−4	−5	13.21	27.76	−5	−4	12.52	39.61	−2	+9
29	65.41	8.35	+3	−9	10.94	17.69	−6	−2	13.24	28.14	−6	0	12.44	39.96	+1	+9
30	65.63	8.59	0	−9					13.27	28.52	−6	+3	12.36	40.30	+4	+8
31	65.85	8.84	−3	−7					13.30	28.90	−5	+6	12.27	40.64	+6	+5
32	66.06	9.09	−5	−4					13.32	29.29	−3	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 49′ 0″	11.069	−11.024	−84° 49′ 20″	11.081	−11.036	−84° 49′ 40″	11.093	−11.047
10	11.075	−11.030	30	11.087	−11.042	50	11.099	−11.053

$\alpha_{1945.0} = 12^h\ 48^m\ 58^s\!.78$ $\delta_{1945.0} = -84^\circ\ 49'\ 30''\!.88$

Sd) ι Octantis $5^{m}.38$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$12^{h}49^{m}$	−84° 49′	in $0^{s}.01$	in $0''.01$	$12^{h}49^{m}$	−84° 49′	in $0^{s}.01$	in $0''.01$	$12^{h}48^{m}$	−84° 49′	in $0^{s}.01$	in $0''.01$	$12^{h}48^{m}$	−84° 49′	in $0^{s}.01$	in $0''.01$
1	12.27	40.64	+6	+5	8.16	49.48	+2	−6	62.13	53.93	−6	−3	55.28	53.33	−3	+7
2	12.18	40.97	+6	+2	7.99	49.70	−1	−6	61.91	54.00	−7	0	55.07	53.22	0	+7
3	12.09	41.30	+6	−2	7.81	49.92	−4	−4	61.69	54.06	−7	+4	54.86	53.11	+4	+5
4	12.00	41.64	+4	−5	7.63	50.13	−7	−1	61.47	54.11	−5	+7	54.65	52.99	+6	+2
5	11.90	41.96	+1	−6	7.45	50.34	−8	+2	61.25	54.16	−2	+8	54.45	52.86	+7	−2
6	11.80	42.29	−2	−5	7.27	50.54	−7	+6	61.03	54.20	+2	+7	54.24	52.73	+7	−6
7	11.70	42.61	−5	−3	7.08	50.74	−4	+8	60.81	54.24	+5	+4	54.04	52.60	+5	−9
8	11.59	42.93	−7	0	6.89	50.93	−1	+8	60.58	54.27	+7	0	53.84	52.45	+2	−10
9	11.48	43.24	−7	+4	6.70	51.12	+3	+6	60.35	54.30	+7	−4	53.65	52.30	−1	−9
10	11.37	43.55	−6	+6	6.51	51.30	+6	+2	60.13	54.32	+6	−8	53.45	52.15	−3	−7
11	11.25	43.86	−3	+7	6.31	51.48	+7	−2	59.90	54.33	+4	−10	53.25	52.00	−5	−4
12	11.13	44.16	+1	+6	6.12	51.66	+7	−6	59.68	54.34	+1	−10	53.06	51.84	−6	0
13	11.01	44.47	+5	+4	5.92	51.83	+5	−9	59.45	54.34	−2	−9	52.87	51.67	−6	+3
14	10.89	44.77	+7	0	5.72	51.99	+3	−10	59.23	54.34	−4	−6	52.68	51.50	−5	+6
15	10.76	45.06	+8	−4	5.52	52.15	0	−10	59.00	54.33	−6	−3	52.50	51.33	−3	+9
16	10.63	45.36	+7	−8	5.32	52.30	−3	−8	58.78	54.32	−6	+1	52.31	51.15	−1	+9
17	10.50	45.65	+4	−10	5.11	52.44	−5	−5	58.56	54.30	−6	+5	52.13	50.96	+2	+9
18	10.36	45.93	+2	−11	4.91	52.58	−6	−1	58.34	54.27	−4	+7	51.96	50.77	+5	+7
19	10.22	46.21	−1	−9	4.70	52.72	−6	+2	58.11	54.24	−2	+9	51.78	50.58	+6	+3
20	10.08	46.48	−4	−7	4.49	52.85	−5	+5	57.89	54.20	+1	+9	51.61	50.38	+7	0
21	9.93	46.75	−5	−3	4.28	52.97	−3	+8	57.67	54.16	+4	+8	51.44	50.18	+5	−4
22	9.78	47.02	−6	0	4.07	53.09	−1	+9	57.45	54.11	+6	+5	51.27	49.97	+3	−6
23	9.63	47.29	−6	+4	3.86	53.21	+2	+8	57.23	54.06	+7	+2	51.10	49.76	0	−7
24	9.48	47.55	−4	+6	3.65	53.32	+5	+7	57.00	54.00	+6	−2	50.94	49.54	−4	−5
25	9.32	47.80	−2	+8	3.43	53.42	+6	+4	56.78	53.94	+5	−5	50.78	49.32	−6	−3
26	9.16	48.06	0	+9	3.22	53.52	+7	0	56.57	53.87	+2	−7	50.62	49.10	−7	+1
27	9.00	48.31	+3	+8	3.00	53.62	+6	−3	56.35	53.79	−2	−7	50.47	48.87	−6	+4
28	8.84	48.55	+5	+6	2.79	53.70	+4	−6	56.13	53.71	−5	−4	50.32	48.64	−4	+7
29	8.67	48.79	+6	+3	2.57	53.79	0	−6	55.92	53.62	−7	−1	50.17	48.40	−1	+7
30	8.51	49.02	+6	−1	2.35	53.86	−3	−5	55.70	53.53	−7	+2	50.03	48.16	+3	+6
31	8.33	49.25	+5	−4	2.13	53.93	−6	−3	55.49	53.43	−6	+6	49.89	47.92	+6	+2
32	8.16	49.48	+2	−6					55.28	53.33	−3	+7	49.75	47.67	+7	−1

δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 49′ 40″	11.093	−11.047	−84° 49′ 50″	11.099	−11.053
50	11.099	−11.053	60	11.105	−11.059

$\alpha_{1945.0} = 12^{h}\ 48^{m}\ 58^{s}.78$ $\qquad \delta_{1945.0} = -84°\ 49'\ 30''.88$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$12^h 48^m$	−84° 49′	in $0^s.01$	in $0''.01$	$12^h 48^m$	−84° 49′	in $0^s.01$	in $0''.01$	$12^h 48^m$	−84° 49′	in $0^s.01$	in $0''.01$	$12^h 48^m$	−84° 49′	in $0^s.01$	in $0''.01$
	s	"			s	"			s	"			s	"		
1	49.75	47.67	+7	−1	47.45	39.07	+4	−10	49.27	29.99	−5	−5	54.73	24.22	−6	+4
2	49.61	47.42	+7	−5	47.44	38.76	+1	−10	49.40	29.73	−6	−1	54.96	24.11	−3	+6
3	49.48	47.17	+6	−8	*)47.43	38.45	−1	−9	49.53	29.48	−6	+2	55.19	24.01	−1	+8
4	49.36	46.91	+3	−10	47.43	38.15	−4	−7	49.67	29.23	−5	+5	55.42	23.91	+1	+8
5	49.23	46.65	0	−10	47.43	37.84	−6	−3	49.81	28.99	−3	+7	55.66	23.82	+4	+7
6	49.12	46.38	−3	−8	47.44	37.53	−6	0	49.96	28.75	−1	+8	55.90	23.73	+6	+5
7	49.00	46.12	−5	−5	47.46	37.22	−6	+4	50.11	28.51	+2	+8	56.14	23.65	+6	+2
8	48.89	45.84	−6	−2	47.48	36.92	−4	+6	50.26	28.28	+4	+7	56.38	23.58	+6	−1
9	48.79	45.57	−6	+2	47.50	36.61	−2	+8	50.41	28.05	+6	+4	56.62	23.51	+4	−4
10	48.68	45.30	−6	+5	47.53	36.30	0	+9	50.57	27.82	+7	+1	56.86	23.45	+2	−5
11	48.58	45.02	−4	+8	47.56	35.99	+3	+8	50.74	27.60	+6	−2	57.11	23.39	−2	−5
12	48.49	44.74	−2	+9	47.59	35.69	+5	+6	50.90	27.38	+3	−4	57.35	23.34	−5	−3
13	48.39	44.46	+1	+9	47.63	35.38	+6	+3	51.08	27.17	0	−5	57.60	23.30	−7	0
14	48.30	44.18	+4	+8	47.68	35.08	+6	0	51.25	26.96	−3	−4	57.85	23.26	−8	+4
15	48.22	43.89	+6	+5	47.73	34.78	+5	−3	51.43	26.76	−6	−2	58.10	23.23	−7	+7
16	48.14	43.60	+7	+2	47.78	34.48	+2	−5	51.62	26.57	−8	+1	58.36	23.21	−4	+9
17	48.07	43.31	+6	−2	47.84	34.19	−1	−6	51.81	26.38	−8	+5	58.61	23.19	0	+9
18	48.00	43.02	+4	−5	47.91	33.89	−5	−4	52.00	26.19	−6	+8	58.87	23.18	+3	+6
19	47.93	42.72	+1	−6	47.98	33.60	−7	−1	52.19	26.00	−2	+9	59.12	23.17	+6	+2
20	47.86	42.43	−2	−6	48.05	33.31	−8	+2	52.39	25.82	+2	+7	59.38	23.17	+8	−2
21	47.80	42.13	−5	−3	48.13	33.02	−7	+6	52.58	25.65	+5	+4	59.63	23.18	+7	−7
22	47.74	41.83	−7	0	48.21	32.73	−4	+8	52.79	25.48	+7	0	59.88	23.19	+5	−10
23	47.69	41.53	−7	+3	48.30	32.44	0	+7	52.99	25.32	+8	−5	60.14	23.21	+2	−11
24	47.65	41.23	−5	+6	48.39	32.16	+3	+5	53.20	25.17	+7	−9	60.40	23.24	−1	−11
25	47.60	40.92	−2	+7	48.49	31.88	+6	+1	53.41	25.02	+4	−11	60.66	23.27	−4	−8
26	47.57	40.62	+1	+6	48.59	31.60	+8	−3	53.63	24.87	+1	−11	60.92	23.31	−6	−5
27	47.54	40.31	+5	+3	48.69	31.33	+8	−7	53.85	24.73	−2	−10	61.18	23.36	−6	−1
28	47.51	40.00	+7	0	48.80	31.06	+6	−10	54.07	24.60	−5	−7	61.44	23.41	−6	+3
29	47.49	39.69	+7	−4	48.91	30.79	+3	−11	54.29	24.47	−6	−3	61.70	23.47	−4	+6
30	47.47	39.38	+7	−8	49.03	30.52	0	−11	54.51	24.34	−6	0	61.96	23.53	−2	+7
31	47.45	39.07	+4	−10	49.15	30.25	−3	−8	54.73	24.22	−6	+4	62.22	23.60	0	+8
32					49.27	29.99	−5	−5					62.48	23.68	+3	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 49′ 20″	11.081	−11.036	−84° 49′ 30″	11.087	−11.042	−84° 49′ 40″	11.093	−11.047
30	11.087	−11.042	40	11.093	−11.047	50	11.099	−11.053

$\alpha_{1945.0} = 12^h\ 48^m\ 58^s.78$ $\qquad$ $\delta_{1945.0} = -84°\ 49'\ 30''.88$

*) Tag der doppelten unteren Kulmination: Okt. 3.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Se) 20 G. Octantis $6^m.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$14^h 58^m$	−87° 55′	in $0^s.01$	in $0''.01$	$14^h 58^m$	−87° 55′	in $0^s.01$	in $0''.01$	$14^h 59^m$	−87° 55′	in $0^s.01$	in $0''.01$	$14^h 59^m$	−87° 55′	in $0^s.01$	in $0''.01$
1	$33^s.82$	$18''.05$	+16	−5	$54^s.03$	$17''.20$	−7	−7	$12^s.35$	$21''.01$	−10	−6	$28^s.58$	$29''.22$	−14	+6
2	34.41	17.94	+11	−7	54.70	17.27	−13	−5	12.96	21.22	−14	−3	29.00	29.53	−9	+9
3	35.02	17.83	+4	−8	55.38	17.34	−16	−2	13.56	21.43	−17	0	29.42	29.85	−3	+10
4	35.63	17.73	−3	−8	56.05	17.41	−17	+2	14.16	21.65	−16	+4	29.82	30.17	+3	+10
5	36.25	17.63	−9	−6	56.73	17.49	−16	+6	14.76	21.87	−13	+8	30.21	30.49	+9	+8
6	36.86	17.54	−14	−3	57.41	17.58	−11	+9	15.35	22.09	−8	+10	30.60	30.81	+13	+5
7	37.49	17.45	−17	0	58.08	17.67	−5	+10	15.93	22.32	−1	+11	30.98	31.14	+13	+1
8	38.12	17.37	−16	+4	58.75	17.77	+3	+10	16.51	22.55	+6	+10	31.34	31.47	+10	−3
9	38.75	17.30	−14	+7	59.42	17.87	+9	+8	17.09	22.79	+11	+7	31.70	31.80	+3	−6
10	39.38	17.23	−8	+9	60.09	17.98	+14	+5	17.66	23.03	+14	+3	32.06	32.13	−5	−7
11	40.03	17.17	−1	+10	60.76	18.10	+15	0	18.22	23.28	+13	−1	32.40	32.47	−12	−7
12	40.67	17.11	+6	+9	61.43	18.22	+12	−4	18.78	23.53	+8	−5	32.73	32.81	−17	−4
13	41.32	17.06	+12	+6	62.10	18.35	+6	−7	19.33	23.78	+1	−8	33.06	33.15	−17	0
14	41.97	17.02	+15	+3	62.76	18.48	−2	−8	19.87	24.04	−7	−8	33.38	33.49	−13	+3
15	42.62	16.98	+14	−1	63.42	18.61	−9	−7	20.41	24.30	−13	−6	33.69	33.83	−6	+6
16	43.28	16.94	+10	−5	64.08	18.75	−14	−5	20.95	24.56	−16	−3	34.00	34.17	+3	+6
17	43.94	16.92	+3	−8	64.73	18.90	−15	−1	21.48	24.83	−15	+1	34.29	34.51	+11	+5
18	44.60	16.90	−4	−8	65.39	19.05	−13	+2	22.00	25.10	−10	+4	34.57	34.86	+18	+2
19	45.26	16.88	−11	−6	66.04	19.20	−7	+5	22.51	25.38	−2	+6	34.85	35.20	+20	−1
20	45.93	16.87	−15	−3	66.68	19.36	+1	+6	23.02	25.65	+7	+6	35.12	35.55	+19	−5
21	46.59	16.87	−15	0	67.33	19.53	+9	+6	23.52	25.94	+14	+4	35.37	35.90	+15	−8
22	47.27	16.87	−11	+4	67.97	19.70	+15	+3	24.02	26.22	+19	+1	35.62	36.26	+8	−9
23	47.94	16.88	−5	+6	68.61	19.87	+18	0	24.51	26.51	+19	−2	35.86	36.61	+1	−9
24	48.62	16.89	+3	+6	69.24	20.05	+18	−3	24.99	26.80	+17	−6	36.09	36.96	−5	−8
25	49.30	16.91	+10	+5	69.87	20.23	+15	−6	25.46	27.09	+12	−8	36.32	37.31	−11	−5
26	49.98	16.94	+16	+2	70.50	20.42	+9	−8	25.92	27.39	+5	−9	36.53	37.67	−14	−2
27	50.66	16.97	+18	−1	71.12	20.61	+2	−8	26.38	27.69	−2	−8	36.73	38.02	−15	+1
28	51.33	17.00	+17	−4	71.74	20.81	−4	−8	26.83	27.99	−8	−7	36.93	38.38	−14	+5
29	52.01	17.04	+12	−7	72.35	21.01	−10	−6	27.28	28.29	−13	−4	37.11	38.73	−11	+8
30	52.68	17.09	+6	−8					27.72	28.60	−16	−1	37.29	39.09	−5	+9
31	53.36	17.14	0	−8					28.15	28.91	−16	+3	37.45	39.45	+1	+10
32	54.03	17.20	−7	−7					28.58	29.22	−14	+6				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 55′ 10″	27.545	−27.527	−87° 55′ 20″	27.582	−27.563	−87° 55′ 30″	27.618	−27.600
20	27.582	−27.563	30	27.618	−27.600	40	27.655	−27.637

$\alpha_{1945.0} = 14^h\ 59^m\ 0^s.04$ $\delta_{1945.0} = -87°\ 55'\ 41''.62$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Se) 20 G. Octantis $6^m_.52$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$14^h 59^m$	$-87° 55'$	in $0^s.01$	in $0''.01$	$14^h 59^m$	$-87° 55'$	in $0^s.01$	in $0''.01$	$14^h 59^m$	$-87° 55'$	in $0^s.01$	in $0''.01$	$14^h 58^m$	$-87° 56'$	in $0^s.01$	in $0''.01$
	s	"			s	"			s	"			s	"		
1	37.45	39.45	+ 1	+10	37.74	50.63	+ 9	− 4	29.47	59.17	−10	− 7	74.42	4.00	−12	+ 5
2	37.61	39.81	+ 8	+ 9	37.59	50.96	+ 2	− 6	29.07	59.40	−16	− 4	73.87	4.07	− 5	+ 7
3	37.75	40.17	+12	+ 6	37.43	51.28	− 6	− 7	28.66	59.63	−18	0	73.31	4.13	+ 4	+ 7
4	37.89	40.53	+14	+ 2	37.27	51.61	−13	− 6	28.25	59.85	−16	+ 3	72.76	4.19	+12	+ 5
5	38.02	40.89	+12	− 2	37.09	51.93	−18	− 3	27.83	60.06	−10	+ 6	72.20	4.24	+17	+ 2
6	38.14	41.24	+ 6	− 5	36.90	52.24	−19	+ 1	27.40	60.27	− 2	+ 8	71.64	4.29	+19	− 1
7	38.25 38.35	41.60 41.96	− 1 − 9	− 7 − 7	36.71	52.56	−14	+ 5	26.97	60.48	+ 7	+ 7	71.08	4.33	+17	− 5
8	38.44	42.32	−16	− 5	36.51	52.87	− 7	+ 7	26.53	60.68	+14	+ 4	70.51	4.37	+12	− 8
9	38.52	42.67	−19	− 1	36.29	53.18	+ 2	+ 7	26.08	60.87	+18	+ 1	69.95	4.40	+ 5	− 9
10	38.59	43.03	−17	+ 2	36.07	53.49	+11	+ 6	25.63	61.06	+19	− 3	69.38	4.42	− 2	− 9
11	38.65	43.38	−11	+ 5	35.84	53.79	+17	+ 3	25.17	61.25	+16	− 7	68.81	4.44	− 8	− 7
12	38.70	43.74	− 2	+ 7	35.60	54.09	+20	− 1	24.70	61.43	+10	− 9	68.24	4.45	−13	− 4
13	38.74	44.10	+ 7	+ 7	35.36	54.39	+19	− 5	24.23	61.61	+ 3	−10	67.67	4.46	−16	− 1
14	38.78	44.45	+15	+ 4	35.10	54.69	+14	− 8	23.76	61.78	− 4	− 9	67.10	4.46	−16	+ 3
15	38.80	44.80	+20	+ 1	34.84	54.98	+ 7	−10	23.28	61.95	−11	− 6	66.54	4.45	−13	+ 6
16	38.82	45.16	+20	− 3	34.56	55.27	0	−10	22.79	62.11	−15	− 3	65.97	4.44	− 8	+ 9
17	38.82	45.51	+17	− 7	34.28	55.55	− 7	− 8	22.30	62.27	−16	0	65.40	4.43	− 2	+10
18	38.82	45.86	+11	− 9	33.99	55.84	−12	− 5	21.81	62.42	−15	+ 4	64.83	4.40	+ 5	+10
19	38.80	46.21	+ 4	−10	33.69	56.11	−15	− 2	21.31	62.57	−11	+ 7	64.27	4.37	+11	+ 8
20	38.78	46.56	− 3	− 9	33.38	56.39	−15	+ 2	20.80	62.71	− 5	+ 9	63.70	4.34	+14	+ 4
21	38.74	46.90	− 9	− 7	33.06	56.66	−13	+ 5	20.29	62.85	+ 2	+10	63.13	4.30	+14	0
22	38.70	47.25	−13	− 4	32.74	56.93	− 8	+ 8	19.77	62.98	+ 8	+ 9	62.57	4.26	+11	− 4
23	38.65	47.60	−15	0	32.41	57.20	− 2	+ 9	19.25	63.11	+13	+ 6	62.00	4.20	+ 4	− 7
24	38.59	47.94	−14	+ 3	32.07	57.46	+ 4	+ 9	18.73	63.23	+15	+ 2	61.44	4.15	− 4	− 8
25	38.52	48.28	−11	+ 6	31.72	57.72	+10	+ 8	18.20	63.35	+14	− 2	60.89	4.08	−11	− 7
26	38.43	48.62	− 6	+ 8	31.37	57.97	+14	+ 5	17.67	63.46	+ 9	− 5	60.33	4.01	−16	− 4
27	38.34	48.96	0	+ 9	31.01	58.22	+14	+ 1	17.14	63.56	+ 1	− 7	59.78	3.94	−17	0
28	38.24	49.30	+ 6	+ 9	30.63	58.46	+12	− 3	16.60	63.66	− 6	− 7	59.23	3.86	−14	+ 3
29	38.13	49.64	+11	+ 7	30.25	58.70	+ 6	− 6	16.06	63.75	−13	− 6	58.68	3.77	− 7	+ 6
30	38.01	49.97	+14	+ 3	29.87	58.94	− 2	− 7	15.52	63.84	−17	− 3	58.14	3.68	+ 2	+ 7
31	37.88	50.30	+13	0	29.47	59.17	−10	− 7	14.97	63.92	−17	+ 1	57.60	3.58	+10	+ 6
32	37.74	50.63	+ 9	− 4					14.42	64.00	−12	+ 5	57.06	3.48	+16	+ 3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 55′ 30″	27.618	−27.600	−87° 55′ 40″	27.655	−27.637	−87° 56′ 0″	27.730	−27.712
40	27.655	−27.637	50	27.693	−27.675	10	27.767	−27.749

$\alpha_{1945.0} = 14^h\ 59^m\ 0^s.04$ $\delta_{1945.0} = -87°\ 55'\ 41''.62$

Se) 20 G. Octantis $6^m 52$

Tag	September AR.	September Dekl.	September ☾ Glieder (s)	September ☾ Glieder (″)	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder (s)	Oktober ☾ Glieder (″)	November AR.	November Dekl.	November ☾ Glieder (s)	November ☾ Glieder (″)	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder (s)	Dezember ☾ Glieder (″)
	$14^h 58^m$	$-87° 55'$	in $0^s.01$	in $0''.01$	$14^h 58^m$	$-87° 55'$	in $0^s.01$	in $0''.01$	$14^h 58^m$	$-87° 55'$	in $0^s.01$	in $0''.01$	$14^h 58^m$	$-87° 55'$	in $0^s.01$	in $0''.01$
	s	″			s	″			s	″			s	″		
1	57.06	63.48	+16	+3	43.47	58.02	+17	−7	37.88	49.10	−7	−8	43.06	40.32	−15	0
2	56.52	63.38	+19	0	43.13	57.77	+11	−9	37.88	48.79	−12	−5	43.41	40.06	−13	+4
3	55.99	63.26	+18	−4	42.80	57.52	+4	−10	37.90	48.49	−14	−2	43.77	39.81	−9	+7
4	55.47	63.14	+14	−7	42.49	57.26	−3	−9	37.92	48.18	−14	+2	44.13	39.56	−3	+9
5	54.94	63.02	+8	−9	42.18	57.00	−9	−7	*)37.96	47.87	−12	+5	44.51	39.32	+2	+9
6	54.43	62.89	+1	−9	41.88	56.74	−13	−4	38.01	47.56	−8	+8	44.90	39.07	+8	+8
7	53.91	62.75	−6	−8	41.59	56.47	−15	0	38.07	47.26	−2	+9	45.30	38.84	+12	+6
8	53.40	62.61	−12	−6	41.32	56.20	−14	+3	38.15	46.95	+4	+9	45.71	38.60	+14	+3
9	52.90	62.46	−15	−2	41.05	55.93	−12	+6	38.23	46.64	+9	+8	46.13	38.37	+12	−1
10	52.40	62.31	−16	+1	40.79	55.66	−7	+9	38.33	46.33	+13	+5	46.55	38.14	+7	−4
11	51.90	62.15	−14	+5	40.54	55.38	−1	+10	38.44	46.02	+13	+2	46.99	37.91	0	−6
12	51.41	61.99	−10	+8	40.30	55.10	+6	+9	38.56	45.72	+11	−2	47.43	37.69	−8	−7
13	50.93	61.83	−5	+10	40.08	54.81	+11	+7	38.69	45.42	+5	−5	47.89	37.48	−16	−5
14	50.46	61.65	+2	+10	39.86	54.53	+13	+4	38.84	45.12	−3	−7	48.35	37.27	−20	−2
15	49.99	61.48	+8	+9	39.66	54.24	+13	0	38.99	44.82	−12	−6	48.82	37.07	−20	+2
16	49.53	61.30	+13	+6	39.46	53.95	+8	−4	39.16	44.52	−18	−4	49.30	36.87	−15	+6
17	49.07	61.11	+14	+2	39.28	53.66	+1	−6	39.35	44.22	−20	0	49.79	36.68	−7	+8
18	48.62	60.92	+12	−2	39.10	53.36	−7	−7	39.54	43.93	−18	+4	50.29	36.49	+3	+8
19	48.18	60.72	+7	−5	38.94	53.06	−14	−6	39.74	43.64	−11	+7	50.80	36.30	+12	+6
20	47.74	60.52	−1	−7	38.79	52.76	−18	−3	39.96	43.34	−2	+8	51.31	36.12	+19	+3
21	47.31	60.31	−9	−7	38.65	52.46	−18	+1	40.18	43.06	+8	+7	51.83	35.94	+21	−2
22	46.89	60.10	−15	−5	38.52	52.16	−14	+5	40.42	42.77	+16	+4	52.36	35.77	+19	−6
23	46.48	59.89	−18	−2	38.41	51.86	−6	+7	40.67	42.49	+21	0	52.89	35.61	+14	−9
24	46.07	59.67	−16	+2	38.30	51.56	+4	+7	40.93	42.21	+21	−4	53.43	35.44	+6	−11
25	45.67	59.45	−10	+5	38.21	51.26	+13	+6	41.20	41.93	+17	−8	53.98	35.29	−2	−10
26	45.29	59.22	−2	+7	38.13	50.95	+19	+2	41.49	41.65	+11	−10	54.54	35.14	−8	−8
27	44.91	58.99	+8	+6	38.06	50.64	+21	−2	41.78	41.38	+3	−11	55.11	34.99	−13	−5
28	44.53	58.75	+15	+4	38.00	50.34	+20	−6	42.09	41.11	−4	−9	55.68	34.85	−14	−1
29	44.17	58.51	+20	+1	37.95	50.03	+15	−9	42.40	40.84	−10	−7	56.26	34.71	−14	+2
30	43.81	58.27	+20	−3	37.91	49.72	+7	−10	42.73	40.58	−14	−4	56.84	34.58	−10	+6
31	43.47	58.02	+17	−7	37.89	49.41	0	−10	43.06	40.32	−15	0	57.42	34.46	−5	+8
32					37.88	49.10	−7	−8					58.02	34.34	+1	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 55′ 30″	27.618	−27.600	−87° 55′ 40″	27.655	−27.637	−87° 56′ 0″	27.730	−27.712
40	27.655	−27.637	50	27.693	−27.675	10	27.767	−27.749

$\alpha_{1945.0} = 14^h\ 59^m\ 0^s.04$ $\delta_{1945.0} = -87°\ 55'\ 41''.62$

*) Tag der doppelten unteren Kulmination: Nov. 5.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sf) 26 G. Octantis $6^m_.13$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$16^h 39^m$	— 86° 16′	in $0^s.01$ | $0''.01$	$16^h 39^m$	— 86° 16′	in $0^s.01$ | $0''.01$	$16^h 39^m$	— 86° 16′	in $0^s.01$ | $0''.01$	$16^h 40^m$	— 86° 16′	in $0^s.01$ | $0''.01$
	s	″		s	″		s	″		s	″	
1	34.36	6.32	+11 −2	44.25	1.08	0 −8	55.23	0.42	−3 −7	7.06	4.14	−10 +3
2	34.61	6.09	+9 −5	44.63	0.99	−4 −7	55.63	0.47	−7 −6	7.41	4.33	−9 +6
3	34.87	5.86	+6 −7	45.01	0.90	−8 −5	56.03	0.52	−9 −3	7.76	4.52	−7 +9
4	35.13	5.63	+2 −8	45.38	0.82	−10 −2	56.43	0.58	−11 +1	8.11	4.71	−3 +10
5	35.40	5.41	−2 −8	45.76	0.74	−11 +2	56.83	0.64	−11 +4	8.45	4.91	+1 +10
6	35.68	5.19	−6 −6	46.14	0.67	−10 +6	57.23	0.71	−9 +8	8.79	5.12	+5 +7
7	35.96	4.98	−9 −3	46.53	0.60	−7 +9	57.62	0.78	−5 +10	9.13	5.32	+7 +3
8	36.24	4.77	−11 0	46.91	0.54	−3 +10	58.02	0.86	−1 +10	9.46	5.54	+7 −1
9	36.53	4.56	−11 +4	47.30	0.48	+1 +10	58.41	0.95	+3 +9	9.79	5.75	+5 −5
10	36.83	4.36	−9 +7	47.69	0.43	+5 +7	58.81	1.03	+6 +5	10.11	5.97	+1 −8
11	37.13	4.16	−5 +9	48.08	0.38	+8 +3	59.20	1.13	+8 +1	10.44	6.20	−3 −9
12	37.43	3.97	−1 +10	48.47	0.34	+8 −1	59.59	1.23	+7 −3	10.75	6.43	−7 −7
13	37.74	3.78	+4 +9	48.86	0.30	+6 −5	59.98	1.33	+4 −7	11.07	6.66	−9 −4
14	38.05	3.59	+7 +5	49.25	0.27	+3 −8	60.37	1.44	0 −9	11.39	6.89	−9 0
15	38.36	3.41	+9 +1	49.65	0.25	−1 −9	60.76	1.55	−4 −8	11.70	7.13	−6 +4
16	38.68	3.23	+8 −3	50.04	0.23	−5 −8	61.15	1.67	−7 −6	12.00	7.37	−1 +7
17	39.00	3.06	+5 −7	50.44	0.21	−8 −4	61.53	1.79	−8 −2	12.31	7.61	+4 +7
18	39.33	2.90	+1 −8	50.83	0.20	−8 −1	61.91	1.91	−7 +2	12.61	7.86	+8 +6
19	39.66	2.73	−3 −8	51.23	0.20	−6 +3	62.29	2.04	−4 +5	12.90	8.11	+12 +3
20	39.99	2.58	−7 −6	51.63	0.20	−2 +6	62.67	2.18	+1 +7	13.19	8.36	+12 0
21	40.33	2.43	−8 −3	52.03	0.20	+2 +7	63.05	2.32	+6 +7	13.47	8.62	+11 −4
22	40.67	2.28	−8 +1	52.43	0.21	+7 +6	63.43	2.46	+9 +5	13.75	8.88	+9 −7
23	41.02	2.14	−5 +5	52.83	0.22	+10 +4	63.80	2.61	+12 +2	14.03	9.14	+5 −8
24	41.37	2.00	−1 +7	53.23	0.24	+11 +1	64.17	2.77	+12 −2	14.30	9.40	+1 −8
25	41.71	1.87	+4 +7	53.63	0.27	+11 −3	64.54	2.93	+10 −5	14.57	9.67	−3 −7
26	42.07	1.74	+7 +6	54.03	0.30	+8 −6	64.91	3.09	+7 −7	14.84	9.94	−7 −5
27	42.42	1.62	+10 +3	54.43	0.33	+5 −7	65.28	3.25	+3 −8	15.10	10.21	−9 −2
28	42.78	1.50	+11 0	54.83	0.37	+1 −8	65.64	3.42	−1 −8	15.36	10.49	−10 +1
29	43.14	1.39	+10 −4	55.23	0.42	−3 −7	66.00	3.59	−5 −6	15.61	10.76	−9 +5
30	43.51	1.28	+7 −6				66.36	3.77	−8 −4	15.86	11.04	−7 +8
31	43.88	1.18	+4 −8				66.71	3.95	−10 −1	16.10	11.33	−4 +10
32	44.25	1.08	0 −8				67.06	4.14	−10 +3			

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 16′ 0″	15.358	−15.325	−86° 16′ 10″	15.369	−15.337
10	15.369	−15.337	20	15.381	−15.348

$\alpha_{1945.0} = 16^h\ 39^m\ 58^s.34$ $\delta_{1945.0} = -86°\ 16'\ 21''.74$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sf) 26 G. Octantis $6^m.13$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$16^h 40^m$	−86° 16′	in $0^s.01$	$0''.01$	$16^h 40^m$	−86° 16′	in $0^s.01$	$0''.01$	$16^h 40^m$	−86° 16′	in $0^s.01$	$0''.01$	$16^h 40^m$	−86° 16′	in $0^s.01$	$0''.01$
1	16.10	11.33	− 4	+10	21.24 / 21.32	20.97 / 21.30	+ 7 / + 7	+ 2 / − 2	21.11	30.86	− 2	− 8	15.86	38.61	− 9	+ 2
2	16.34	11.61	0	+10	21.40	21.63	+ 4	− 6	21.02	31.16	− 7	− 7	15.62	38.80	− 6	+ 5
3	16.58	11.90	+ 4	+ 8	21.47	21.96	0	− 8	20.92	31.45	− 9	− 4	15.38	38.99	− 1	+ 8
4	16.81	12.19	+ 6	+ 5	21.53	22.29	− 5	− 8	20.82	31.74	−10	0	15.13	39.17	+ 4	+ 8
5	17.04	12.48	+ 7	+ 1	21.59	22.62	− 8	− 6	20.71	32.03	− 8	+ 4	14.88	39.34	+ 8	+ 6
6	17.26	12.78	+ 6	− 4	21.64	22.94	−10	− 3	20.59	32.31	− 4	+ 7	14.62	39.51	+11	+ 2
7	17.48	13.08	+ 2	− 7	21.68	23.27	−10	+ 1	20.47	32.60	+ 1	+ 8	14.37	39.68	+11	− 2
8	17.69	13.38	− 2	− 8	21.72	23.60	− 7	+ 5	20.35	32.88	+ 6	+ 7	14.10	39.84	+10	− 5
9	17.90	13.68	− 6	− 8	21.76	23.93	− 2	+ 7	20.21	33.15	+10	+ 5	13.84	39.99	+ 7	− 8
10	18.10	13.98	− 9	− 5	21.79	24.25	+ 3	+ 8	20.07	33.43	+12	+ 1	13.57	40.14	+ 3	− 9
11	18.29	14.28	−10	− 1	21.81	24.58	+ 8	+ 6	19.93	33.70	+11	− 3	13.30	40.29	− 1	− 8
12	18.48	14.59	− 8	+ 3	21.83	24.91	+11	+ 3	19.78	33.97	+ 9	− 6	13.03	40.43	− 5	− 7
13	18.67	14.90	− 4	+ 6	21.84	25.23	+12	− 1	19.63	34.24	+ 6	− 8	12.75	40.57	− 8	− 4
14	18.86	15.21	+ 1	+ 8	21.85	25.55	+11	− 5	19.48	34.50	+ 2	− 9	12.47	40.70	−10	− 1
15	19.04	15.51	+ 6	+ 7	21.85	25.88	+ 8	− 8	19.32	34.76	− 3	− 8	12.19	40.82	−10	+ 3
16	19.21	15.83	+10	+ 5	21.85	26.20	+ 4	− 9	19.15	35.02	− 6	− 6	11.90	40.94	− 8	+ 7
17	19.38	16.14	+13	+ 1	21.84	26.52	0	− 9	18.98	35.27	− 9	− 3	11.62	41.06	− 6	+ 9
18	19.54	16.45	+12	− 3	21.82	26.84	− 4	− 7	18.80	35.52	−10	+ 1	11.33	41.16	− 2	+10
19	19.69	16.77	+10	− 6	21.80	27.16	− 7	− 5	18.62	35.77	− 9	+ 5	11.04	41.26	+ 2	+ 9
20	19.84	17.09	+ 7	− 8	21.77	27.47	− 9	− 1	18.43	36.01	− 7	+ 8	10.74	41.36	+ 6	+ 7
21	19.99	17.40	+ 3	− 9	21.74	27.79	− 9	+ 2	18.24	36.25	− 4	+10	10.44	41.45	+ 8	+ 3
22	20.13	17.73	− 2	− 8	21.70	28.11	− 8	+ 6	18.05	36.49	0	+10	10.15	41.54	+ 8	− 1
23	20.26	18.05	− 5	− 6	21.66	28.42	− 6	+ 8	17.85	36.72	+ 4	+ 8	9.85	41.63	+ 5	− 6
24	20.39	18.37	− 8	− 3	21.61	28.73	− 2	+10	17.64	36.95	+ 7	+ 5	9.55	41.70	+ 2	− 8
25	20.52	18.69	− 9	0	21.56	29.04	+ 2	+ 9	17.43	37.17	+ 8	+ 1	9.24	41.77	− 3	− 9
26	20.64	19.01	− 9	+ 4	21.50	29.35	+ 5	+ 7	17.22	37.39	+ 7	− 3	8.94	41.84	− 7	− 7
27	20.75	19.34	− 7	+ 7	21.43	29.65	+ 7	+ 4	17.01	37.60	+ 4	− 7	8.63	41.90	− 9	− 4
28	20.86	19.66	− 5	+ 9	21.36	29.96	+ 8	0	16.79	37.81	0	− 8	8.32	41.95	− 9	0
29	20.97	19.99	− 1	+10	21.28	30.26	+ 6	− 5	16.56	38.02	− 5	− 8	8.01	42.00	− 6	+ 4
30	21.06	20.31	+ 3	+ 9	21.20	30.56	+ 2	− 7	16.33	38.22	− 8	− 6	7.70	42.04	− 2	+ 7
31	21.16	20.64	+ 6	+ 6	21.11	30.86	− 2	− 8	16.10	38.42	−10	− 2	7.39	42.08	+ 3	+ 8
32	21.24 / 21.32	20.97 / 21.30	+ 7 / + 7	+ 2 / − 2					15.86	38.61	− 9	+ 2	7.07	42.11	+ 7	+ 7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 16′ 10″	15.369	−15.337	−86° 16′ 20″	15.381	−15.348	−86° 16′ 40″	15.404	−15.371
20	15.381	−15.348	30	15.392	−15.360	50	15.415	−15.383

$\alpha_{1945.0} = 16^h\ 39^m\ 58^s.34$ $\delta_{1945.0} = -86°\ 16'\ 21''.74$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sf) 26 G. Octantis $6^m.13$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^h 39^m$	—86° 16′	in $0^s.01$	in $0''.01$	$16^h 39^m$	—86° 16′	in $0^s.01$	in $0''.01$	$16^h 39^m$	—86° 16′	in $0^s.01$	in $0''.01$	$16^h 39^m$	—86° 16′	in $0^s.01$	in $0''.01$
1	67.07	42.11	+ 7	+ 7	57.96	40.31	+12	− 3	51.31	33.64	0	− 9	*)50.18	24.68	− 8	− 3
2	66.76	42.13	+11	+ 4	57.68	40.17	+10	− 6	51.18	33.37	− 4	− 7	50.24	24.37	− 8	+ 1
3	66.44	42.15	+12	0	57.41	40.02	+ 7	− 8	51.06	33.09	− 7	− 5	50.32	24.07	− 8	+ 5
4	66.13	42.16	+11	− 4	57.14	39.86	+ 2	− 9	50.94	32.81	− 8	− 1	50.40	23.76	− 6	+ 7
5	65.82	42.17	+ 8	− 7	56.87	39.70	− 2	− 8	50.83	32.53	− 9	+ 2	50.48	23.46	− 3	+ 9
6	65.51	42.17	+ 5	− 9	56.61	39.53	− 5	− 6	50.72	32.24	− 8	+ 6	50.57	23.16	+ 1	+ 9
7	65.19	42.17	0	− 9	56.35	39.36	− 8	− 3	50.62	31.95	− 5	+ 8	50.67	22.86	+ 4	+ 8
8	64.88	42.16	− 4	− 8	56.09	39.18	− 9	0	50.53	31.66	− 2	+10	50.78	22.56	+ 6	+ 5
9	64.57	42.14	− 7	− 5	55.84	39.00	− 9	+ 4	50.44	31.37	+ 1	+ 9	50.89	22.26	+ 7	+ 1
10	64.26	42.12	− 9	− 2	55.59	38.82	− 8	+ 7	50.36	31.08	+ 4	+ 7	51.01	21.96	+ 6	− 3
11	63.94	42.09	−10	+ 2	55.34	38.63	− 5	+ 9	50.28	30.78	+ 6	+ 4	51.13	21.67	+ 3	− 6
12	63.63	42.05	− 9	+ 5	55.10	38.43	− 1	+10	50.21	30.49	+ 7	0	51.26	21.38	− 1	− 8
13	63.32	42.01	− 7	+ 8	54.86	38.23	+ 2	+ 9	50.15	30.19	+ 5	− 4	51.40	21.09	− 6	− 8
14	63.01	41.97	− 4	+10	54.63	38.03	+ 5	+ 6	50.10	29.89	+ 1	− 7	51.55	20.80	−10	− 6
15	62.70	41.92	0	+10	54.40	37.82	+ 7	+ 3	50.05	29.59	− 3	− 8	51.70	20.51	−12	− 2
16	62.39	41.86	+ 4	+ 8	54.18	37.60	+ 6	− 2	50.00	29.28	− 8	− 7	51.85	20.22	−11	+ 3
17	62.08	41.80	+ 6	+ 5	53.97	37.38	+ 4	− 6	49.97	28.98	−11	− 4	52.02	19.94	− 7	+ 6
18	61.78	41.73	+ 7	0	53.76	37.16	0	− 8	49.94	28.67	−11	0	52.19	19.66	− 2	+ 9
19	61.47	41.65	+ 6	− 4	53.55	36.93	− 5	− 8	49.91	28.36	− 9	+ 4	52.37	19.38	+ 3	+ 8
20	61.16	41.57	+ 3	− 7	53.34	36.70	− 9	− 6	49.90	28.05	− 5	+ 7	52.55	19.10	+ 9	+ 6
21	60.86	41.49	− 1	− 9	53.14	36.47	−10	− 3	49.89	27.75	+ 1	+ 8	52.74	18.83	+12	+ 2
22	60.56	41.39	− 6	− 8	52.95	36.23	− 9	+ 2	49.88	27.44	+ 7	+ 8	52.93	18.56	+13	− 2
23	60.26	41.30	− 9	− 5	52.76	35.99	− 6	+ 5	49.89	27.13	+11	+ 5	53.13	18.29	+12	− 6
24	59.96	41.19	−10	− 1	52.58	35.74	− 1	+ 8	49.90	26.82	+13	0	53.34	18.03	+ 8	− 9
25	59.67	41.08	− 8	+ 3	52.40	35.49	+ 4	+ 8	49.92	26.52	+13	− 4	53.55	17.77	+ 4	−10
26	59.38	40.97	− 4	+ 6	52.23	35.24	+ 9	+ 6	49.94	26.21	+10	− 7	53.77	17.51	− 1	− 9
27	59.09	40.85	+ 1	+ 8	52.06	34.98	+12	+ 3	49.98	25.91	+ 7	− 9	53.99	17.26	− 5	− 7
28	58.80	40.72	+ 6	+ 7	51.90	34.72	+13	− 1	50.02	25.60	+ 2	−10	54.22	17.01	− 7	− 4
29	58.52	40.59	+10	+ 5	51.75	34.45	+12	− 5	50.07	25.29	− 2	− 9	54.45	16.76	− 8	0
30	58.24	40.45	+12	+ 1	51.60	34.18	+ 9	− 8	50.12	24.98	− 6	− 6	54.69	16.52	− 8	+ 3
31	57.96	40.31	+12	− 3	51.45	33.91	+ 5	−10	50.18	24.68	− 8	− 3	54.94	16.28	− 6	+ 6
32					51.31	33.64	0	− 9					55.19	16.04	− 4	+ 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 16′ 10″	15.369	−15.337	−86° 16′ 20″	15.381	−15.348	−86° 16′ 40″	15.404	−15.371
20	15.381	−15.348	30	15.392	−15.360	50	15.415	−15.383

$\alpha_{1945.0} = 16^h\ 39^m\ 58^s.34$ $\delta_{1945.0} = -86°\ 16'\ 21''.74$

*) Tag der doppelten unteren Kulmination: Dez. 1.

Sg) χ Octantis $5^m_{\cdot}22$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	18^h22^m	—87° 39′	$0^s.01$	$0''.01$	18^h22^m	—87° 39′	$0^s.01$	$0''.01$	18^h22^m	—87° 39′	$0^s.01$	$0''.01$	18^h22^m	—87° 39′	$0^s.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	5.11	15.67	+16	+2	15.32	6.83	+ 4	−8	30.37	1.66	+ 1	−8	49.85	0.11	−16	−1
2	5.30	15.36	+16	−1	15.78	6.59	− 2	−8	30.98	1.54	− 6	−8	50.48	0.14	−17	+3
3	5.50	15.04	+13	−5	16.25	6.35	− 8	−7	31.58	1.42	−11	−6	51.11	0.17	−15	+6
4	5.71	14.73	+ 8	−7	16.72	6.12	−14	−5	32.19	1.31	−16	−3	51.74	0.20	−11	+8
5	5.93	14.41	+ 2	−8	17.20	5.89	−17	−2	32.80	1.20	−18	0	52.37	0.24	− 5	+9
6	6.16	14.10	− 5	−8	17.68	5.67	−18	+2	33.41	1.10	−17	+4	53.00	0.29	+ 2	+8
7	6.40	13.79	−11	−6	18.18	5.45	−16	+5	34.02	1.00	−14	+7	53.62	0.34	+ 8	+5
8	6.65	13.49	−15	−4	18.68	5.23	−11	+8	34.64	0.90	− 8	+9	54.25	0.39	+10	+1
9	6.91	13.18	−17	0	19.18	5.02	− 4	+9	35.26	0.82	− 1	+9	54.87	0.45	+10	−4
10	7.18	12.88	−17	+4	19.69	4.81	+ 3	+9	35.88	0.73	+ 5	+7	55.49	0.52	+ 6	−7
11	7.46	12.58	−13	+7	20.21	4.61	+ 9	+6	36.51	0.65	+10	+3	56.11	0.59	+ 1	−9
12	7.75	12.28	− 7	+9	20.74	4.41	+12	+2	37.14	0.58	+12	−1	56.73	0.66	− 5	−9
13	8.05	11.98	0	+9	21.27	4.21	+12	−3	37.77	0.51	+10	−5	57.34	0.74	−10	−6
14	8.36	11.68	+ 6	+7	21.80	4.02	+ 9	−7	38.40	0.45	+ 5	−8	57.95	0.82	−12	−2
15	8.67	11.39	+11	+4	22.34	3.83	+ 4	−9	39.04	0.39	− 1	−9	58.57	0.91	−11	+2
16	8.99	11.10	+13	0	22.89	3.65	− 2	−9	39.68	0.33	− 6	−8	59.17	1.00	− 6	+6
17	9.32	10.81	+12	−4	23.44	3.47	− 8	−7	40.32	0.28	−10	−5	59.78	1.09	+ 1	+8
18	9.67	10.53	+ 7	−7	23.99	3.30	−11	−3	40.96	0.24	−11	0	60.38	1.19	+ 8	+9
19	10.02	10.24	+ 1	−9	24.55	3.13	−10	+1	41.59	0.20	− 8	+4	60.98	1.30	+14	+7
20	10.38	9.96	− 5	−8	25.12	2.96	− 7	+5	42.23	0.16	− 3	+7	61.57	1.41	+18	+4
21	10.75	9.69	−10	−5	25.69	2.80	− 1	+8	42.86	0.13	+ 4	+8	62.16	1.52	+19	0
22	11.12	9.41	−12	−1	26.26	2.64	+ 5	+8	43.50	0.11	+10	+8	62.75	1.64	+16	−3
23	11.51	9.14	−10	+3	26.84	2.48	+11	+7	44.13	0.09	+15	+6	63.33	1.77	+12	−6
24	11.90	8.87	− 6	+6	27.42	2.33	+15	+5	44.76	0.07	+17	+2	63.91	1.90	+ 6	−8
25	12.30	8.60	0	+8	28.00	2.19	+16	+1	45.40	0.06	+17	−1	64.49	2.03	0	−8
26	12.71	8.34	+ 7	+8	28.59	2.05	+15	−2	46.04	0.05	+14	−4	65.06	2.17	− 6	−7
27	13.13	8.08	+12	+6	29.18	1.91	+12	−5	46.68	0.05	+ 9	−7	65.63	2.31	−11	−5
28	13.55	7.82	+15	+3	29.78	1.78	+ 7	−7	47.31	0.05	+ 3	−8	66.19	2.45	−15	−2
29	13.98	7.57	+16	0	30.37	1.66	+ 1	−8	47.95	0.06	− 3	−8	66.75	2.60	−16	+1
30	14.42	7.32	+14	−3					48.58	0.07	− 9	−7	67.30	2.75	−15	+5
31	14.87	7.07	+10	−6					49.22	0.09	−14	−4	67.85	2.91	−12	+8
32	15.32	6.83	+ 4	−8					49.85	0.11	−16	−1				

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 0″	24.388	−24.368	−87° 39′ 10″	24.417	−24.396
10	24.417	−24.396	20	24.446	−24.425

$\alpha_{1945.0} = 18^h\ 22^m\ 50^s.02$ $\delta_{1945.0} = -87°\ 39'\ 19''.91$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sgl χ Octantis 5ᵐ22

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	18^h23^m	−87° 39′	in 0.01ˢ	in 0.01″	18^h23^m	−87° 39′	in 0.01ˢ	in 0.01″	18^h23^m	−87° 39′	in 0.01ˢ	in 0.01″	18^h23^m	−87° 39′	in 0.01ˢ	in 0.01″
1	7.85	2.91	−12	+8	22.03	9.63	+9	+4	28.89	18.82	+2	−9	26.92	28.23	−13	−1
2	8.39	3.07	−6	+9	22.38	9.90	+11	0	28.97	19.13	−4	−9	26.71	28.51	−11	+3
3	8.93	3.24	0	+9	22.72	10.17	+10	−4	29.04	19.45	−10	−7	26.49	28.79	−6	+7
4	9.47	3.41	+5	+7	23.05	10.44	+5	−8	29.10	19.76	−14	−4	26.26	29.06	+1	+9
5	10.00	3.58	+9	+3	23.38	10.71	−1	−9	29.14	20.08	−14	+1	26.02	29.33	+8	+8
6	10.52	3.76	+10	−1	23.70	10.99	−8	−9	29.18	20.39	−10	+5	25.78	29.60	+14	+6
7	11.04	3.94	+8	−6	24.00	11.27	−13	−6	29.21	20.70	−4	+8	25.53	29.86	+17	+3
8	11.56	4.12	+3	−9	24.30	11.55	−15	−2	29.23	21.01	+3	+9	25.27	30.12	+17	−1
9	12.07	4.31	−4	−10	24.60	11.84	−13	+3	29.24	21.33	+10	+8	25.00	30.38	+15	−5
10	12.57	4.50	−10	−8	24.88	12.13	−8	+6	29.24	21.64	+16	+5	24.72	30.63	+10	−7
11	13.07	4.70	−13	−4	25.15	12.42	0	+9	29.23	21.95	+18	+1	24.43	30.88	+4	−8
12	13.56	4.90	−13	0	25.42	12.71	+7	+9	29.22	22.26	+17	−3	24.14	31.13	−3	−8
13	14.04	5.11	−10	+4	25.68	13.00	+14	+7	29.19	22.57	+14	−6	23.84	31.38	−9	−7
14	14.52	5.32	−3	+8	25.93	13.29	+18	+4	29.16	22.89	+8	−8	23.53	31.62	−14	−4
15	15.00	5.53	+4	+9	26.17	13.59	+19	0	29.11	23.20	+1	−9	23.22	31.86	−16	−1
16	15.47	5.75	+11	+8	26.41	13.89	+17	−4	29.06	23.50	−5	−8	22.90	32.09	−16	+3
17	15.93	5.96	+17	+5	26.63	14.19	+12	−7	28.99	23.81	−11	−6	22.57	32.32	−14	+6
18	16.38	6.19	+19	+2	26.84	14.49	+6	−8	28.92	24.12	−15	−3	22.23	32.54	−9	+9
19	16.83	6.41	+18	−2	27.05	14.79	−1	−8	28.84	24.42	−16	+1	21.88	32.76	−3	+9
20	17.27	6.64	+15	−5	27.24	15.09	−7	−7	28.74	24.73	−15	+5	21.53	32.98	+4	+8
21	17.71	6.87	+9	−7	27.43	15.40	−12	−4	28.64	25.03	−11	+8	21.17	33.20	+9	+5
22	18.14	7.11	+3	−8	27.61	15.71	−15	−1	28.53	25.33	−6	+9	20.80	33.41	+12	+1
23	18.56	7.35	−4	−8	27.78	16.02	−15	+3	28.41	25.64	+1	+9	20.43	33.61	+11	−3
24	18.98	7.59	−9	−6	27.95	16.32	−13	+6	28.28	25.93	+7	+7	20.05	33.81	+7	−7
25	19.38	7.83	−13	−3	28.10	16.63	−9	+8	28.14	26.23	+11	+4	19.67	34.01	+2	−9
26	19.78	8.08	−15	0	28.24	16.94	−3	+9	27.99	26.52	+12	−1	19.28	34.20	−5	−9
27	20.18	8.33	−15	+4	28.37	17.25	+3	+8	27.84	26.81	+10	−5	18.88	34.38	−10	−6
28	20.56	8.58	−12	+7	{28.50 28.61	17.56 17.88	+8 +11	+6 +2}	27.67	27.10	+5	−8	18.48	34.56	−13	−3
29	20.94	8.84	−7	+9	28.71	18.19	+11	−2	27.50	27.39	−1	−9	18.07	34.74	−12	+2
30	21.31	9.10	−2	+9	28.81	18.50	+8	−6	27.31	27.67	−7	−8	17.66	34.91	−8	+6
31	21.68	9.36	+4	+8	28.89	18.82	+2	−9	27.12	27.95	−12	−5	17.24	35.08	−1	+8
32	22.03	9.63	+9	+4					26.92	28.23	−13	−1	16.81	35.25	+6	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 0″	24.388	−24.368	−87° 39′ 10″	24.417	−24.396	−87° 39′ 30″	24.475	−24.454
10	24.417	−24.396	20	24.446	−24.425	40	24.504	−24.483

$\alpha_{1945.0} = 18^h\ 22^m\ 50^s.02$ $\qquad$ $\delta_{1945.0} = -87°\ 39'\ 19''.91$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sg) χ Octantis $5^{m}.22$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	ℭ Glieder		AR.	Dekl.	ℭ Glieder		AR.	Dekl.	ℭ Glieder		AR.	Dekl.	ℭ Glieder	
	18^h23^m	— $87°39'$	in $0.^s01$	in $0.''01$	18^h22^m	— $87°39'$	in $0.^s01$	in $0.''01$	18^h22^m	— $87°39'$	in $0.^s01$	in $0.''01$	18^h22^m	— $87°39'$	in $0.^s01$	in $0.''01$
1	16.81	35.25	+ 6	+ 9	62.41	37.58	+19	+ 2	48.00	34.41	+ 6	− 8	39.73	26.87	− 9	− 5
2	16.38	35.41	+12	+ 7	61.91	37.56	+18	− 2	47.61	34.22	− 1	− 8	39.59	26.57	−13	− 2
3	15.94	35.56	+17	+ 4	61.41	37.54	+15	− 6	47.22	34.02	− 7	− 7	39.47	26.27	−14	+ 2
4	15.50	35.71	+18	0	60.91	37.52	+ 9	− 8	46.84	33.82	−11	− 4	39.36	25.96	−13	+ 5
5	15.06	35.85	+16	− 3	60.41	37.49	+ 3	− 8	46.47	33.62	−14	− 1	39.26	25.65	−10	+ 7
6	14.61	35.99	+12	− 6	59.91	37.45	− 4	− 8	46.11	33.41	−15	+ 3	39.17	25.34	− 5	+ 9
7	14.16	36.12	+ 6	− 8	59.41	37.40	− 9	− 6	45.75	33.19	−13	+ 6	39.09	25.03	0	+ 9
8	13.70	36.24	0	− 9	58.92	37.35	−13	− 3	45.40	32.97	− 9	+ 8	39.02	24.71	+ 5	+ 7
9	13.24	36.36	− 6	− 7	58.42	37.29	−15	0	45.06	32.75	− 4	+ 9	38.96	24.40	+ 9	+ 4
10	12.77	36.48	−11	− 5	57.92	37.23	−15	+ 4	44.72	32.52	+ 1	+ 8	38.91	24.08	+10	0
11	12.31	36.59	−15	− 2	57.43	37.16	−13	+ 7	44.40	32.29	+ 6	+ 6	38.87	23.76	+ 8	− 5
12	11.83	36.69	−16	+ 2	56.94	37.09	− 8	+ 9	44.08	32.05	+ 9	+ 2	38.84	23.45	+ 3	− 8
13	11.36	36.79	−15	+ 5	56.45	37.01	− 3	+ 9	43.77	31.81	+ 9	− 2	38.82	23.13	− 3	−10
14	10.88	36.88	−12	+ 8	55.97	36.92	+ 3	+ 8	43.47	31.56	+ 6	− 6	38.81	22.81	−10	− 9
15	10.40	36.97	− 6	+10	55.49	36.83	+ 8	+ 5	43.18	31.31	0	− 9	38.82	22.49	−15	− 6
16	9.91	37.05	0	+ 9	55.02	36.74	+10	0	42.89	31.06	− 6	−10	38.83	22.17	−17	− 1
17	9.42	37.13	+ 6	+ 7	54.54	36.63	+ 9	− 4	42.62	30.80	−12	− 8	38.85	21.84	−15	+ 3
18	8.93	37.20	+10	+ 3	54.08	36.52	+ 5	− 8	42.35	30.54	−15	− 4	38.89	21.52	− 9	+ 7
19	8.43	37.26	+11	− 2	53.61	36.41	− 1	−10	42.09	30.28	−15	+ 1	38.93	21.20	0	+ 9
20	7.92	37.32	+ 9	− 6	53.15	36.29	− 8	− 9	41.84	30.01	−11	+ 5	38.99	20.87	+ 8	+ 9
21	7.42	37.37	+ 3	− 9	52.69	36.17	−13	− 6	41.60	29.74	− 4	+ 8	39.05	20.55	+15	+ 7
22	6.92	37.42	− 3	−10	52.24	36.03	−14	− 2	41.37	29.47	+ 5	+10	39.13	20.23	+20	+ 3
23	6.41	37.46	− 9	− 8	51.79	35.90	−12	+ 3	41.15	29.19	+13	+ 8	39.22	19.91	+20	− 1
24	5.91	37.49	−12	− 4	51.35	35.75	− 7	+ 7	40.94	28.91	+19	+ 5	39.31	19.58	+17	− 5
25	5.41	37.52	−13	0	50.91	35.60	+ 1	+ 9	40.73	28.63	+21	+ 1	39.42	19.26	+12	− 8
26	4.91	37.55	− 9	+ 5	50.48	35.45	+ 9	+ 9	40.54	28.34	+19	− 3	39.54	18.94	+ 5	− 9
27	4.41	37.56	− 3	+ 8	50.05	35.29	+16	+ 7	40.36	28.05	+15	− 6	*)39.67	18.62	− 2	− 8
28	3.92	37.57	+ 4	+ 9	49.63	35.12	+20	+ 3	40.19	27.76	+ 9	− 8	39.81	18.30	− 7	− 6
29	3.42	37.58	+11	+ 8	49.21	34.95	+20	− 1	40.02	27.47	+ 2	− 9	39.96	17.98	−12	− 3
30	2.92	37.58	+17	+ 5	48.80	34.77	+17	− 4	39.87	27.17	− 4	− 8	40.12	17.66	−14	0
31	2.41	37.58	+19	+ 2	48.39	34.59	+12	− 7	39.73	26.87	− 9	− 5	40.29	17.34	−14	+ 4
32					48.00	34.41	+ 6	− 8					40.47	17.02	−11	+ 7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 10″	24.417	−24.396	−87° 39′ 20″	24.446	−24.425	−87° 39′ 30″	24.475	−24.454
20	24.446	−24.425	30	24.475	−24.454	40	24.504	−24.483

$\alpha_{1945.0} = 18^h\ 22^m\ 50.^s02$ $\delta_{1945.0} = -87°\ 39'\ 19.''91$

*) Tag der doppelten unteren Kulmination: Dez. 27.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sh) σ Octantis $5^{m}.48$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$20^h 6^m$	— 89° 9′	in $0^s.01$	in $0''.01$	$20^h 6^m$	— 89° 9′	in $0^s.01$	in $0''.01$	$20^h 7^m$	— 89° 8′	in $0^s.01$	in $0''.01$	$20^h 7^m$	— 89° 8′	in $0^s.01$	in $0''.01$
	s	″			s	″			s	″			s	″		
1	32.70	21.14	+35	+6	39.84	10.42	+25	−6	6.58	61.70	+17	−7	51.51	55.06	−38	−5
2	32.52	20.80	+40	+3	40.49	10.08	+11	−8	7.82	61.43	+1	−8	53.12	54.91	−46	−2
3	32.37	20.47	+40	−1	41.17	9.75	−6	−8	9.08	61.16	−16	−8	54.74	54.77	−48	+2
4	32.24	20.13	+33	−4	41.87	9.41	−23	−8	10.36	60.90	−32	−7	56.37	54.63	−42	+5
5	32.15	19.79	+20	−7	42.60	9.08	−38	−6	11.65	60.64	−43	−4	58.00	54.50	−29	+7
6	32.08	19.44	+5	−8	43.35	8.74	−47	−3	12.96	60.38	−49	0	59.64	54.37	−10	+8
7	32.03	19.10	−13	−8	44.12	8.41	−49	+1	14.28	60.13	−47	+3	61.28	54.25	+8	+6
8	32.02	18.76	−29	−7	44.92	8.08	−43	+5	15.62	59.88	−37	+6	62.93	54.13	+24	+3
9	32.03	18.41	−41	−4	45.73	7.76	−29	+7	16.97	59.63	−21	+8	64.58	54.02	+32	−1
10	32.07	18.07	−46	−1	46.57	7.43	−10	+8	18.34	59.39	−1	+8	66.24	53.91	+30	−5
11	32.14	17.72	−44	+3	47.44	7.10	+9	+7	19.72	59.15	+18	+5	67.90	53.81	+20	−8
12	32.24	17.37	−35	+6	48.32	6.78	+26	+4	21.12	58.91	+30	+2	69.57	53.71	+4	−9
13	32.36	17.02	−19	+8	49.23	6.46	+36	0	22.53	58.68	+35	−2	71.24	53.61	−12	−8
14	32.51	16.67	+1	+8	50.16	6.15	+36	−4	23.96	58.45	+29	−6	72.91	53.52	−24	−5
15	32.69	16.32	+19	+6	51.11	5.83	+26	−7	25.40	58.23	+17	−8	74.59	53.44	−30	0
16	32.90	15.97	+32	+3	52.09	5.51	+11	−9	26.85	58.01	0	−9	76.27	53.36	−26	+4
17	33.14	15.62	+37	−1	53.09	5.20	−6	−8	28.31	57.79	−15	−7	77.94	53.28	−14	+8
18	33.40	15.27	+32	−5	54.11	4.90	−19	−5	29.78	57.58	−25	−3	79.62	53.21	+3	+10
19	33.69	14.92	+20	−8	55.15	4.60	−26	−1	31.27	57.37	−27	+2	81.30	53.15	+21	+10
20	34.01	14.57	+3	−8	56.21	4.29	−26	+3	32.77	57.17	−21	+6	82.99	53.09	+35	+8
21	34.35	14.22	−13	−7	57.29	3.99	−17	+7	34.28	56.97	−8	+9	84.67	53.03	+44	+5
22	*)34.72	13.88	−25	−4	58.38	3.69	−3	+9	35.80	56.77	+9	+10	86.36	52.98	+46	+1
23	35.11	13.53	−29	0	59.50	3.39	+13	+9	37.33	56.58	+25	+9	88.04	52.93	+40	−2
24	35.53	13.18	−25	+4	60.63	3.10	+27	+8	38.86	56.39	+37	+6	89.72	52.89	+30	−5
25	35.98	12.83	−14	+7	61.78	2.81	+37	+5	40.41	56.21	+42	+3	91.39	52.85	+15	−7
26	36.45	12.48	+1	+9	62.95	2.53	+41	+2	41.97	56.03	+42	−1	93.07	52.82	−1	−8
27	36.95	12.14	+17	+9	64.14	2.25	+38	−2	43.54	55.86	+35	−4	94.75	52.80	−17	−7
28	37.48	11.79	+30	+7	65.35	1.97	+30	−5	45.12	55.69	+23	−6	96.42	52.78	−31	−5
29	38.03	11.45	+38	+4	66.58	1.70	+17	−7	46.70	55.52	+8	−8	98.10	52.77	−41	−3
30	38.61	11.11	+40	0					48.30	55.36	−8	−8	99.77	52.76	−46	+1
31	39.21	10.76	+35	−3					49.90	55.21	−25	−7	101.44	52.76	−43	+4
32	39.84	10.42	+25	−6					51.51	55.06	−38	−5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 8′ 50″	67.190	−67.182	−89° 9′ 0″	67.409	−67.402	−89° 9′ 20″	67.853	−67.846
60	67.409	−67.402	10	67.630	−67.623	30	68.077	−68.069

$\alpha_{1945.0} = 20^h\ 8^m\ 31^s.59$ $\delta_{1945.0} = -89°\ 9'\ 13''.06$

*) Tag der doppelten unteren Kulmination: Jan. 22.

Obere Kulmination Greenwich

Sh) σ Octantis 5^m48

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$20^h 8^m$	$-89° 8'$	in 0.01^s	in $0.01''$	$20^h 9^m$	$-89° 8'$	in 0.01^s	in $0.01''$	$20^h 10^m$	$-89° 9'$	in 0.01^s	in $0.01''$	$20^h 10^m$	$-89° 9'$	in 0.01^s	in $0.01''$
	s	″			s	″			s	″			s	″		
1	41.44	52.76	−43	+4	29.76	55.04	+13	+6	4.14	1.29	+31	−4	18.99	10.67	−32	−4
2	43.10	52.76	−33	+7	31.15	55.19	+25	+3	4.98	1.56	+22	−7	19.03	10.98	−34	0
3	44.76	52.76	−17	+8	32.53	55.35	+31	−2	5.80	1.83	+7	−9	19.04	11.29	−28	+5
4	46.42	52.77	+1	+7	33.89	55.51	+27	−6	6.60	2.10	−11	−9	19.03	11.60	−15	+8
5	48.07	52.79	+17	+5	35.24	55.67	+15	−9	7.37	2.37	−26	−6	18.99	11.91	+3	+9
6	49.72	52.81	+28	+1	36.57	55.84	−1	−10	8.12	2.64	−35	−3	18.92	12.22	+21	+9
7	51.36	52.83	+30	−3	37.89	56.01	−18	−9	8.84	2.91	−34	+2	18.83	12.53	+36	+6
8	52.99	52.86	+23	−7	39.19	56.19	−31	−5	9.54	3.19	−25	+6	18.71	12.84	+44	+3
9	54.62	52.89	+9	−10	40.48	56.37	−35	−1	10.22	3.47	−9	+9	18.56	13.15	+45	−1
10	56.24	52.93	−8	−10	41.75	56.55	−31	+4	10.87	3.76	+10	+9	18.39	13.46	+38	−4
11	57.86	52.97	−23	−7	43.00	56.74	−19	+8	11.50	4.04	+28	+8	18.19	13.76	+25	−7
12	59.47	53.02	−32	−3	44.24	56.93	+1	+10	12.10	4.32	+41	+5	17.96	14.07	+9	−8
13	61.08	53.08	−32	+2	45.46	57.13	+20	+10	12.68	4.61	+46	+2	17.71	14.37	−8	−8
14	62.68	53.14	−23	+6	46.66	57.33	+36	+7	13.24	4.90	+43	−2	17.43	14.68	−25	−7
15	64.27	53.20	−7	+9	47.84	57.54	+46	+4	13.77	5.20	+34	−5	17.13	14.98	−38	−4
16	65.85	53.27	+12	+10	49.00	57.75	+48	0	14.28	5.49	+20	−8	16.80	15.28	−45	−1
17	67.42	53.35	+30	+9	50.15	57.96	+41	−3	14.76	5.78	+3	−8	16.44	15.58	−46	+3
18	68.99	53.43	+42	+6	51.28	58.17	+29	−6	15.22	6.08	−15	−8	16.06	15.88	−38	+6
19	70.55	53.52	+48	+3	52.39	58.39	+13	−8	15.65	6.38	−30	−6	15.65	16.18	−24	+8
20	72.09	53.61	+45	−1	53.48	58.61	−4	−8	16.06	6.68	−41	−3	15.22	16.47	−6	+8
21	73.62	53.70	+36	−4	54.55	58.84	−21	−7	16.44	6.98	−45	+1	14.76	16.76	+12	+7
22	75.14	53.80	+22	−7	55.60	59.07	−34	−4	16.79	7.28	−42	+4	14.27	17.05	+26	+4
23	76.66	53.90	+6	−8	56.63	59.30	−41	−1	17.12	7.58	−31	+7	13.76	17.34	+34	−1
24	78.16	54.01	−11	−8	57.64	59.54	−43	+2	17.43	7.89	−15	+8	13.22	17.63	+32	−5
25	79.65	54.12	−26	−6	58.63	59.78	−38	+5	{17.70 {17.95	8.20 8.51	+3 +19	+8} +6}	12.66	17.91	+22	−8
26	81.13	54.24	−37	−3	59.60	60.02	−25	+8	18.18	8.82	+31	+2	12.08	18.19	+6	−9
27	82.60	54.36	−42	0	60.56	60.27	−9	+8	18.38	9.13	+34	−2	11.47	18.46	−12	−8
28	84.06	54.49	−42	+3	61.49	60.52	+9	+7	18.56	9.43	+29	−6	10.84	18.74	−25	−5
29	85.51	54.62	−34	+6	62.40	60.77	+23	+4	18.70	9.74	+15	−8	10.18	19.02	−32	−1
30	86.94	54.76	−21	+8	63.28	61.03	+32	0	18.82	10.05	−1	−9	9.50	19.29	−29	+4
31	88.36	54.90	−4	+8	64.14	61.29	+31	−4	18.92	10.36	−18	−8	8.80	19.56	−19	+8
32	89.76	55.04	+13	+6					18.99	10.67	−32	−4	8.07	19.83	−2	+10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 8′ 50″	67.190	−67.182	−89° 9′ 0″	67.409	−67.402	−89° 9′ 10″	67.630	−67.623
60	67.409	−67.402	10	67.630	−67.623	20	67.853	−67.846

$\alpha_{1945.0} = 20^h\ 8^m\ 31^s.59$ $\delta_{1945.0} = -89°\ 9'\ 13''.06$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$20^h 9^m$	— 89° 9′	in 0.01 s	in 0.01″	$20^h 8^m$	— 89° 9′	in 0.01 s	in 0.01″	$20^h 8^m$	— 89° 9′	in 0.01 s	in 0.01″	$20^h 7^m$	— 89° 9′	in 0.01 s	in 0.01″
1	68.07	19.83	−2	+10	96.88	25.89	+42	+6	54.21	27.01	+32	−6	77.77	22.49	−12	−7
2	67.32	20.09	+16	+10	95.59	26.02	+47	+2	52.83	26.95	+14	−8	76.81	22.26	−25	−5
3	66.54	20.35	+32	+8	94.29	26.14	+45	−1	51.46	26.88	−3	−8	75.86	22.02	−37	−2
4	65.74	20.60	+42	+5	92.98	26.26	+36	−5	50.09	26.80	−20	−6	74.94	21.77	−40	+1
5	64.92	20.85	+45	+1	91.66	26.37	+23	−7	48.73	26.72	−32	−4	74.04	21.52	−38	+4
6	64.08	21.10	+41	−3	90.33	26.47	+6	−8	47.38	26.63	−40	−1	73.16	21.27	−30	+7
7	63.22	21.34	+31	−6	88.99	26.57	−11	−8	46.04	26.53	−43	+2	72.30	21.01	−17	+8
8	62.34	21.58	+16	−8	87.64	26.66	−26	−6	44.71	26.43	−39	+5	71.47	20.75	−1	+8
9	61.43	21.82	−1	−8	86.29	26.75	−38	−3	43.38	26.32	−28	+7	70.66	20.48	+14	+5
10	60.50	22.05	−18	−7	84.93	26.83	−44	0	42.07	26.21	−13	+8	69.88	20.21	+25	+2
11	59.55	22.28	−33	−5	83.56	26.90	−45	+3	40.77	26.09	+3	+7	69.12	19.94	+29	−3
12	58.58	22.50	−43	−2	82.19	26.97	−37	+6	39.48	25.96	+18	+4	68.38	19.66	+24	−7
13	57.60	22.72	−47	+1	80.81	27.03	−24	+8	38.20	25.83	+27	0	67.67	19.38	+10	−10
14	56.60	22.94	−43	+4	79.42	27.08	−7	+8	36.93	25.69	+27	−4	66.98	19.10	−7	−11
15	55.57	23.15	−33	+7	78.03	27.13	+10	+6	35.68	25.55	+19	−8	66.31	18.81	−25	−9
16	54.52	23.36	−16	+8	76.63	27.17	+24	+3	34.44	25.40	+4	−10	65.68	18.52	−38	−5
17	53.46	23.56	+2	+7	75.23	27.21	+30	−2	33.21	25.24	−14	−10	65.07	18.22	−41	0
18	52.38	23.76	+19	+5	73.83	27.24	+27	−6	32.00	25.08	−30	−7	64.48	17.92	−34	+5
19	51.28	23.96	+30	+1	72.42	27.27	+16	−9	30.80	24.91	−38	−3	63.92	17.62	−18	+8
20	50.16	24.15	+32	−3	71.01	27.29	−1	−10	29.62	24.74	−36	+2	63.38	17.32	+3	+10
21	49.03	24.34	+25	−7	69.60	27.30	−18	−8	28.45	24.56	−25	+7	62.87	17.01	+25	+10
22	47.88	24.52	+11	−9	68.19	27.31	−31	−5	27.30	24.38	−6	+10	62.39	16.70	+42	+7
23	46.71	24.69	−6	−9	66.79	27.31	−35	0	26.17	24.19	+15	+11	61.93	16.38	+51	+4
24	45.53	24.86	−21	−7	65.38	27.30	−29	+5	25.05	24.00	+35	+9	61.50	16.06	+51	−1
25	44.33	25.02	−31	−3	63.98	27.29	−15	+9	23.95	23.80	+48	+6	61.09	15.74	+44	−4
26	43.12	25.18	−31	+2	62.58	27.27	+5	+10	22.87	23.60	+53	+2	60.72	15.41	+30	−7
27	41.90	25.33	−22	+6	61.17	27.24	+24	+10	21.81	23.39	+49	−2	60.37	15.09	+11	−8
28	40.65	25.48	−6	+9	59.77	27.21	+40	+8	20.77	23.17	+37	−5	60.04	14.77	−6	−7
29	39.41	25.62	+12	+10	58.37	27.17	+49	+4	19.75	22.95	+22	−7	59.74	14.44	−22	−6
30	38.15	25.76	+29	+9	56.98	27.12	+50	0	18.75	22.72	+4	−8	59.47	14.10	−33	−3
31	36.88	25.89	+42	+6	55.59	27.07	+43	−4	17.77	22.49	−12	−7	59.22	13.77	−39	0
32					54.21	27.01	+32	−6					59.01	13.43	−39	+4

δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 9′ 10″	67.630	−67.623	−89° 9′ 20″	67.853	−67.846
20	67.853	−67.846	30	68.077	−68.069

$\alpha_{1945.0} = 20^h\ 8^m\ 31^s.59$ $\delta_{1945.0} = -89°\ 9'\ 13''.06$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Si) β Octantis 4ᵐ.34

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	22^h40^m	— 81° 40′	in $0^s.01$	in $0''.01$	22^h40^m	— 81° 40′	in $0^s.01$	in $0''.01$	22^h40^m	— 81° 40′	in $0^s.01$	in $0''.01$	22^h40^m	— 81° 39′	in $0^s.01$	in $0''.01$
1	25.78	37.74	+3	+9	23.54	29.00	+4	− 2	23.36	18.89	+3	− 4	25.24	67.66	−3	− 9
2	25.68	37.52	+4	+7	23.50	28.66	+3	− 5	*)23.39	18.51	+2	− 7	25.34	67.32	−5	− 7
3	25.58	37.30	+5	+4	23.46	28.32	+1	− 8	23.42	18.14	0	− 9	25.44	66.99	−5	− 5
4	25.48	37.07	+4	+1	23.43	27.98	−1	− 9	23.45	17.77	−2	− 9	25.54	66.65	−5	− 1
5	25.39	36.84	+3	−3	23.40	27.64	−3	− 9	23.48	17.39	−4	− 9	25.64	66.32	−4	+ 2
6	25.29	36.61	+2	−6	23.37	27.29	−5	− 8	23.52	17.02	−5	− 7	25.74	65.99	−2	+ 5
7	25.20	36.37	0	−8	23.34	26.94	−5	− 5	23.56	16.64	−5	− 3	25.84	65.67	0	+ 6
8	25.11	36.12	−2	−9	23.32	26.59	−5	− 1	23.60	16.27	−5	0	25.95	65.35	+2	+ 6
9	25.02	35.87	−4	−9	23.30	26.24	−4	+ 2	23.64	15.90	−4	+ 4	26.05	65.03	+4	+ 3
10	24.94	35.62	−5	−7	23.28	25.88	−2	+ 5	23.69	15.52	−1	+ 6	26.16	64.71	+4	0
11	24.85	35.36	−5	−3	23.26	25.52	0	+ 7	23.74	15.15	+1	+ 7	26.27	64.40	+4	− 4
12	24.77	35.09	−5	+1	23.25	25.16	+2	+ 7	23.79	14.79	+3	+ 5	26.39	64.09	+2	− 7
13	24.69	34.82	−3	+4	23.24	24.80	+4	+ 5	23.84	14.42	+4	+ 2	26.50	63.79	0	− 8
14	24.61	34.55	−1	+7	23.23	24.44	+5	+ 1	23.90	14.05	+4	− 1	26.61	63.49	−2	− 7
15	24.53	34.27	+1	+8	23.22	24.07	+4	− 3	23.95	13.68	+4	− 5	26.73	63.18	−3	− 4
16	24.45	33.99	+3	+6	23.21	23.71	+3	− 6	24.01	13.31	+2	− 7	26.85	62.89	−4	0
17	24.37	33.71	+4	+3	23.21	23.34	+1	− 7	24.07	12.94	0	− 7	26.97	62.59	−3	+ 5
18	24.30	33.42	+4	0	23.21	22.98	−1	− 7	24.14	12.58	−2	− 5	27.09	62.30	−2	+ 8
19	24.23	33.13	+4	−4	23.21	22.61	−3	− 4	24.20	12.22	−3	− 2	27.22	62.01	0	+10
20	24.16	32.83	+2	−6	23.22	22.24	−3	− 1	24.27	11.86	−3	+ 2	27.34	61.73	+2	+11
21	24.10	32.53	0	−7	23.23	21.87	−3	+ 3	24.34	11.50	−2	+ 6	27.47	61.45	+4	+ 9
22	24.04	32.22	−2	−6	23.24	21.50	−2	+ 7	24.41	11.14	−1	+ 9	27.60	61.17	+5	+ 6
23	23.98	31.91	−3	−3	23.25	21.13	0	+ 9	24.49	10.78	+1	+10	27.73	60.90	+5	+ 3
24	23.92	31.60	−4	0	23.26	20.75	+1	+10	24.57	10.43	+3	+10	27.86	60.63	+4	− 1
25	23.86	31.29	−3	+4	23.27	20.38	+3	+ 9	24.64	10.07	+4	+ 8	27.99	60.36	+3	− 4
26	23.81	30.97	−2	+7	23.29	20.00	+4	+ 6	24.72	9.72	+4	+ 5	28.12	60.10	+1	− 6
27	23.76	30.65	0	+9	23.31	19.63	+4	+ 3	24.80	9.37	+4	+ 2	28.26	59.84	0	− 8
28	23.71	30.33	+2	+9	23.33	19.26	+4	0	24.89	9.02	+4	− 2	28.39	59.59	−2	− 8
29	23.66	30.00	+3	+8	23.36	18.89	+3	− 4	24.97	8.68	+2	− 5	28.53	59.34	−4	− 7
30	23.62	29.67	+4	+5					25.06	8.33	+1	− 7	28.67	59.10	−5	− 5
31	23.58	29.34	+4	+2					25.15	7.99	−1	− 9	28.81	58.86	−5	− 2
32	23.54	29.00	+4	−2					25.24	7.66	−3	− 9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 39′ 50″	6.898	−6.825	−81° 40′ 10″	6.902	−6.829	−81° 40′ 30″	6.907	−6.834
60	6.900	−6.827	20	6.904	−6.832	40	6.909	−6.836

$\alpha_{1945.0} = 22^h\ 40^m\ 33^s.87$ $\delta_{1945.0} = -81°\ 40'\ 15''.25$

*) Tag der doppelten unteren Kulmination: März 2.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	$22^h 40^m$	−81° 39′	$0^s.01$	0″.01	$22^h 40^m$	−81° 39′	$0^s.01$	0″.01	$22^h 40^m$	−81° 39′	$0^s.01$	0″.01	$22^h 40^m$	−81° 39′	$0^s.01$	0″.01
1	$28^s.81$	58″.86	−5	−2	$33^s.64$	53″.68	0	+6	$38^s.49$	53″.45	+4	+1	$42^s.51$	58″.11	0	−8
2	28.95	58.62	−5	+1	33.81	53.60	+2	+5	38.64	53.53	+4	−3	42.61	58.33	−2	−7
3	29.10	58.39	−3	+4	33.98	53.52	+4	+3	38.79	53.61	+3	−7	42.71	58.56	−4	−4
4	29.25	58.16	−1	+6	34.14	53.44	+4	−1	38.95	53.70	0	−9	42.81	58.79	−4	0
5	29.39	57.93	+1	+6	34.31	53.37	+3	−5	39.09	53.79	−2	−9	42.90	59.02	−3	+5
6	29.54	57.71	+3	+4	34.47	53.30	+2	−8	39.24	53.89	−3	−6	42.99	59.26	−1	+8
7	29.69	57.50	+4	+1	34.64	53.24	0	−9	39.39	53.99	−4	−2	43.08	59.50	+1	+10
8	29.84	57.29	+4	−3	34.80	53.19	−2	−8	39.53	54.10	−4	+2	43.17	59.74	+2	+10
9	29.99	57.08	+3	−6	34.97	53.14	−4	−5	39.67	54.21	−3	+6	43.25	59.99	+4	+8
10	30.14	56.88	+1	−9	35.13	53.10	−4	0	39.82	54.33	−1	+9	43.33	60.24	+5	+5
11	30.29	56.69	−1	−9	35.30	53.06	−3	+4	39.95	54.45	+1	+10	43.41	60.49	+5	+1
12	30.45	56.50	−3	−6	35.46	53.03	−2	+8	40.09	54.58	+3	+9	43.49	60.75	+4	−2
13	30.60	56.31	−4	−2	35.63	53.00	0	+10	40.23	54.71	+5	+7	43.56	61.00	+3	−5
14	30.75	56.13	−4	+2	35.79	52.98	+2	+11	40.37	54.85	+5	+4	43.64	61.27	+1	−8
15	30.91	55.95	−3	+7	35.96	52.96	+4	+9	40.50	54.99	+4	0	43.71	61.53	−1	−9
16	31.06	55.77	−1	+10	36.12	52.95	+5	+6	40.63	55.13	+3	−4	43.77	61.80	−3	−8
17	31.22	55.60	+1	+11	36.28	52.95	+5	+2	40.76	55.29	+2	−6	43.84	62.07	−5	−7
18	31.38	55.44	+3	+10	36.45	52.95	+4	−1	40.89	55.44	0	−8	43.90	62.34	−5	−4
19	31.53	55.28	+5	+8	36.61	52.95	+3	−5	41.02	55.60	−2	−8	43.96	62.61	−5	0
20	31.69	55.13	+5	+5	36.76	52.97	+1	−7	41.15	55.77	−4	−7	44.02	62.89	−4	+3
21	31.86	54.98	+5	+1	36.92	52.99	−1	−8	41.27	55.94	−5	−5	44.07	63.17	−2	+6
22	32.02	54.84	+4	−3	37.08	53.01	−3	−8	41.39	56.12	−5	−2	44.12	63.45	0	+7
23	32.18	54.70	+2	−6	37.24	53.04	−4	−6	41.51	56.30	−5	+1	44.17	63.73	+2	+6
24	32.34	54.56	0	−7	37.40	53.07	−5	−4	41.64	56.48	−3	+5	44.22	64.02	+4	+4
25	32.50	54.43	−2	−8	37.56	53.10	−5	0	41.75	56.67	−1	+7	44.26	64.30	+4	0
26	32.66	54.31	−3	−8	37.72	53.15	−4	+3	41.87	56.86	+1	+7	44.30	64.59	+4	−4
27	32.82	54.19	−5	−6	37.87	53.20	−2	+5	41.98	57.06	+3	+5	44.34	64.88	+3	−7
28	32.98	54.08	−5	−3	38.03	53.25	0	+7	42.09	57.26	+4	+2	44.37	65.17	0	−8
29	33.14	53.97	−5	0	38.18	53.31	+2	+7	42.20	57.47	+4	−1	44.40	65.47	−2	−8
30	33.31	53.87	−4	+4	38.34	53.38	+3	+4	42.31	57.68	+3	−5	44.43	65.76	−3	−5
31	33.48	53.77	−2	+6	38.49	53.45	+4	+1	42.41	57.89	+2	−8	44.46	66.06	−4	−1
32	33.64	53.68	0	+6					42.51	58.11	0	−8	44.48	66.36	−4	+4
													44.50	66.65	−2	+7

δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 39′ 50″	6.898	−6.825	−81° 40′ 0″	6.900	−6.827
60	6.900	−6.827	10	6.902	−6.829

$\alpha_{1945.0} = 22^h\ 40^m\ 33^s.87$ $\delta_{1945.0} = -81°\ 40'\ 15''.25$

Si) β Octantis $4^{m}34$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$22^h 40^m$	−81° 40′	in $0^s.01$ | $0''.01$	$22^h 40^m$	−81° 40′	in $0^s.01$ | $0''.01$	$22^h 40^m$	−81° 40′	in $0^s.01$ | $0''.01$	$22^h 40^m$	−81° 40′	in $0^s.01$ | $0''.01$
1	s 44.48 / 44.50	" 6.36 / 6.65	−4 + 4 / −2 + 7	s 43.86	" 15.54	+3 +10	s 40.93	" 22.37	+4 − 1	s 36.96	" 24.20	0 − 7
2	44.52	6.95	0 +10	43.79	15.82	+5 + 8	40.81	22.51	+3 − 4	36.82	24.16	−2 − 7
3	44.54	7.25	+2 +10	43.73	16.09	+5 + 4	40.69	22.65	+1 − 7	36.69	24.12	−4 − 6
4	44.55	7.55	+4 + 9	43.66	16.36	+5 + 1	40.56	22.79	−1 − 7	36.55	24.08	−5 − 4
5	44.56	7.85	+5 + 6	43.59	16.62	+4 − 3	40.44	22.92	−3 − 7	36.42	24.02	−5 − 1
6	44.57	8.16	+5 + 3	43.52	16.89	+2 − 6	40.31	23.04	−4 − 6	36.29	23.96	−4 + 2
7	44.57	8.46	+4 − 1	43.45	17.14	0 − 8	40.18	23.16	−5 − 4	36.16	23.89	−3 + 4
8	44.57	8.76	+3 − 4	43.37	17.40	−2 − 8	40.05	23.27	−5 − 1	36.03	23.82	−1 + 6
9	44.57	9.07	+2 − 7	43.29	17.65	−3 − 7	39.92	23.38	−4 + 2	35.90	23.74	+1 + 6
10	44.57	9.38	0 − 8	43.21	17.90	−5 − 6	39.79	23.48	−3 + 5	35.77	23.66	+2 + 5
11	44.56	9.68	−2 − 8	43.13	18.15	−5 − 3	39.66	23.58	−1 + 6	35.64	23.57	+4 + 1
12	44.55	9.98	−4 − 7	43.05	18.40	−5 0	39.53	23.67	+1 + 6	35.51	23.47	+4 − 2
13	44.54	10.29	−5 − 5	42.96	18.64	−4 + 3	39.40	23.75	+3 + 3	35.38	23.37	+3 − 6
14	44.52	10.59	−5 − 2	42.87	18.87	−2 + 5	39.27	23.83	+4 0	35.25	23.26	+1 − 9
15	44.51	10.89	−5 + 1	42.78	19.11	0 + 6	39.13	23.90	+4 − 4	35.13	23.14	−1 −10
16	44.49	11.19	−3 + 4	42.68	19.33	+2 + 5	38.99	23.96	+2 − 8	35.01	23.02	−3 − 9
17	44.46	11.49	−1 + 6	42.58	19.56	+4 + 2	38.86	24.02	0 −10	34.88	22.89	−4 − 5
18	44.44	11.78	+1 + 6	42.48	19.78	+4 − 2	38.72	24.07	−2 − 9	34.76	22.75	−5 0
19	44.41	12.08	+3 + 4	42.38	19.99	+3 − 5	38.58	24.12	−3 − 7	34.64	22.61	−3 + 4
20	44.38	12.38	+4 + 1	42.28	20.20	+2 − 8	38.45	24.16	−4 − 2	34.51	22.47	−2 + 9
21	44.34	12.68	+4 − 2	42.18	20.41	0 − 9	38.31	24.20	−4 + 3	34.39	22.32	+1 +11
22	44.31	12.97	+3 − 6	42.07	20.61	−2 − 8	38.18	24.23	−3 + 7	34.27	22.16	+3 +11
23	44.27	13.26	+1 − 8	41.96	20.81	−4 − 4	38.04	24.25	0 +10	34.16	21.99	+5 + 9
24	44.22	13.55	−1 − 8	41.85	21.00	−4 0	37.91	24.26	+2 +12	34.04	21.82	+6 + 6
25	44.18	13.84	−3 − 6	41.74	21.19	−3 + 5	37.77	24.27	+4 +11	33.93	21.65	+5 + 2
26	44.13	14.13	−4 − 2	41.63	21.37	−1 + 9	37.64	24.28	+5 + 8	33.82	21.47	+4 − 2
27	44.08	14.42	−4 + 2	41.52	21.55	+1 +11	37.50	24.27	+6 + 4	33.71	21.28	+3 − 5
28	44.03	14.70	−3 + 7	41.40	21.72	+3 +11	37.37	24.26	+5 0	33.60	21.09	+1 − 7
29	43.97	14.98	−1 +10	41.28	21.89	+4 +10	37.23	24.25	+4 − 3	33.49	20.90	−1 − 7
30	43.91	15.26	+1 +11	41.17	22.05	+5 + 6	37.09	24.23	+2 − 6	33.38	20.70	−3 − 7
31	43.86	15.54	+3 +10	41.05	22.21	+5 + 3	36.96	24.20	0 − 7	33.28	20.49	−4 − 5
32				40.93	22.37	+4 − 1				33.18	20.28	−5 − 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 40′ 0″	6.900	−6.827	−81° 40′ 10″	6.902	−6.829	−81° 40′ 20″	6.904	−6.832
10	6.902	−6.829	20	6.904	−6.832	30	6.907	−6.834

$\alpha_{1945.0} = 22^h\ 40^m\ 33^s.87$ $\delta_{1945.0} = -81°\ 40'\ 15''.25$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	23^h20^m	−87° 47′	in $0^s.01$	in $0''.01$	23^h20^m	−87° 47′	in $0^s.01$	in $0''.01$	23^h20^m	−87° 47′	in $0^s.01$	in $0''.01$	23^h20^m	−87° 46′	in $0^s.01$	in $0''.01$
1	$16^s.58$	$31''.11$	+ 3	+9	$4^s.70$	$22''.96$	+14	− 1	$0^s.42$	$12''.82$	+13	− 3	$3^s.54$	$60''.98$	− 5	− 9
2	16.10	30.92	+ 9	+8	4.44	22.63	+12	− 4	0.40	12.43	+10	− 6	3.78	60.61	−11	− 8
3	15.63	30.73	+13	+5	4.18	22.30	+ 8	− 7	0.38	12.05	+ 5	− 8	4.02	60.25	−16	− 6
4	15.16	30.53	+14	+2	3.93	21.97	+ 2	− 9	0.37	11.66	− 1	− 9	4.27	59.89	−18	− 3
5	14.70	30.33	+14	−2	3.69	21.63	− 4	−10	0.37	11.27	− 8	− 9	4.53	59.53	−17	+ 1
6	14.25	30.12	+11	−5	3.45	21.29	−11	− 9	0.37	10.88	−14	− 8	4.79	59.17	−12	+ 4
7	13.80	29.90	+ 6	−8	3.23	20.94	−15	− 7	0.39	10.50	−17	− 5	5.06	58.82	− 5	+ 6
8	13.36	29.68	0	−9	3.01	20.60	−18	− 3	0.41	10.11	−18	− 1	5.34	58.47	+ 4	+ 6
9	12.92	29.46	− 7	−9	2.80	20.24	−17	+ 1	0.44	9.72	−15	+ 2	5.63	58.12	+11	+ 4
10	12.49	29.22	−13	−8	2.60	19.89	−12	+ 4	0.48	9.33	− 9	+ 5	5.92	57.77	+15	+ 1
11	12.06	28.99	−16	−5	2.40	19.53	− 5	+ 7	0.53	8.95	− 1	+ 6	6.22	57.43	+16	− 3
12	11.64	28.74	−17	−1	2.22	19.17	+ 3	+ 7	*)0.59	8.56	+ 7	+ 6	6.53	57.09	+12	− 6
13	11.23	28.49	−15	+3	2.04	18.81	+10	+ 6	0.66	8.18	+13	+ 4	6.85	56.75	+ 6	− 7
14	10.82	28.24	− 9	+6	1.88	18.45	+15	+ 3	0.74	7.79	+16	0	7.17	56.41	− 2	− 7
15	10.42	27.98	− 2	+7	1.72	18.08	+16	− 1	0.82	7.40	+15	− 3	7.50	56.07	− 8	− 5
16	10.02	27.72	+ 6	+7	1.57	17.72	+13	− 4	0.91	7.02	+10	− 6	7.84	55.74	−13	− 1
17	9.63	27.46	+12	+5	1.43	17.35	+ 7	− 6	1.01	6.63	+ 3	− 7	8.18	55.41	−14	+ 3
18	9.25	27.19	+15	+1	1.29	16.98	0	− 6	1.12	6.24	− 4	− 6	8.53	55.09	−11	+ 7
19	8.88	26.91	+15	−2	1.17	16.61	− 7	− 5	1.24	5.86	−10	− 3	8.89	54.76	− 6	+10
20	8.51	26.63	+11	−5	1.06	16.23	−12	− 2	1.37	5.48	−13	+ 1	9.25	54.45	+ 1	+11
21	8.15	26.35	+ 4	−7	0.96	15.86	−13	+ 2	1.51	5.10	−13	+ 5	9.62	54.14	+ 7	+10
22	7.80	26.06	− 3	−6	0.86	15.48	−11	+ 6	1.65	4.72	− 9	+ 8	10.00	53.82	+12	+ 7
23	7.46	25.76	− 9	−4	0.77	15.10	− 7	+ 8	1.81	4.34	− 3	+10	10.38	53.51	+14	+ 4
24	7.12	25.47	−12	−1	0.69	14.72	− 1	+10	1.97	3.96	+ 3	+10	10.77	53.20	+15	+ 1
25	6.79	25.17	−13	+3	0.62	14.35	+ 5	+ 9	2.14	3.58	+ 9	+ 9	11.16	52.90	+13	− 3
26	6.47	24.87	−10	+6	0.55	13.97	+10	+ 7	2.31	3.20	+13	+ 6	11.57	52.60	+ 9	− 6
27	6.15	24.56	− 5	+9	0.50	13.58	+13	+ 4	2.50	2.83	+14	+ 3	11.97	52.30	+ 3	− 8
28	5.85	24.25	+ 1	+9	0.46	13.20	+14	+ 1	2.69	2.45	+14	− 1	12.39	52.01	− 3	− 9
29	5.55	23.93	+ 7	+8	0.42	12.82	+13	− 3	2.89	2.08	+11	− 4	12.81	51.72	− 9	− 8
30	5.26	23.61	+12	+6					3.10	1.71	+ 7	− 7	13.23	51.44	−14	− 7
31	4.98	23.29	+14	+3					3.32	1.34	+ 1	− 9	13.66	51.16	−17	− 4
32	4.70	22.96	+14	−1					3.54	0.98	− 5	− 9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 46′ 50″	25.822	−25.802	−87° 47′ 10″	25.887	−25.867	−87° 47′ 30″	25.952	−25.932
60	25.854	−25.835	20	25.919	−25.900	40	25.984	−25.965

$\alpha_{1945.0} = 23^h\ 20^m\ 37^s.25$ $\delta_{1945.0} = -87^\circ\ 47'\ 6''.26$

*) Tag der doppelten unteren Kulmination: März 12.

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	23^h20^m	— 87°46′	in $0^s.01$	in $0''.01$	23^h20^m	— 87°46′	in $0^s.01$	in $0''.01$	23^h20^m	— 87°46′	in $0^s.01$	in $0''.01$	23^h21^m	— 87°46′	in $0^s.01$	in $0''.01$
1	13.66	51.16	−17	−4	29.32	44.70	−3	+6	46.44	43.19	+14	+2	2.06	46.83	+3	−8
2	14.10	50.89	−17	0	29.88	44.57	+5	+6	47.00	43.23	+16	−2	2.48	47.03	−5	−7
3	14.54	50.62	−14	+3	30.44	44.44	+11	+4	47.56	43.27	+13	−5	2.89	47.23	−11	−5
4	14.99	50.35	−8	+5	31.00	44.32	+15	0	48.12	43.32	+7	−8	3.30	47.43	−14	−1
5	15.44	50.09	0	+6	31.57	44.21	+15	−4	48.67	43.37	0	−8	3.70	47.64	−14	+3
6	15.90	49.83	+7	+5	32.13	44.10	+10	−7	49.22	43.43	−7	−7	4.09	47.85	−10	+7
7	16.36	49.57	+13	+2	32.70	44.00	+5	−9	49.77	43.50	−13	−4	4.47	48.07	−4	+10
8	16.83	49.32	+16	−2	33.27	43.90	−3	−8	50.31	43.57	−15	+1	4.85	48.30	+3	+10
9	17.30	49.07	+14	−5	33.84	43.81	−10	−6	50.85	43.64	−13	+5	5.22	48.52	+9	+9
10	17.78	48.83	+9	−8	34.42	43.72	−14	−2	51.39	43.73	−8	+8	5.58	48.75	+14	+6
11	18.27	48.59	+1	−8	34.99	43.64	−15	+3	51.92	43.82	−1	+10	5.93	48.99	+16	+3
12	18.76	48.36	−6	−7	35.57	43.57	−11	+7	52.45	43.91	+6	+10	6.28	49.23	+15	−1
13	19.25	48.13	−12	−3	36.15	43.50	−5	+10	52.98	44.01	+11	+8	6.62	49.47	+12	−4
14	19.75	47.90	−14	+1	36.72	43.43	+2	+11	53.50	44.11	+15	+5	6.95	49.72	+7	−7
15	20.25	47.68	−13	+5	37.30	43.37	+8	+10	54.02	44.22	+16	+2	7.27	49.96	0	−9
16	20.75	47.47	−8	+9	37.88	43.32	+14	+7	54.54	44.33	+14	−2	7.58	50.22	−6	−9
17	21.26	47.26	−2	+11	38.45	43.27	+16	+4	55.05	44.45	+10	−5	7.89	50.47	−12	−8
18	21.77	47.05	+5	+11	39.03	43.23	+16	0	55.55	44.57	+5	−8	8.18	50.73	−16	−5
19	22.29	46.85	+11	+9	39.61	43.19	+13	−3	56.05	44.70	−2	−9	8.47	50.99	−18	−2
20	22.81	46.66	+15	+6	40.18	43.16	+8	−6	56.55	44.84	−9	−8	8.74	51.26	−16	+2
21	23.34	46.47	+15	+2	40.76	43.14	+2	−8	57.04	44.98	−14	−7	9.01	51.53	−11	+5
22	23.87	46.28	+14	−1	41.33	43.12	−5	−8	57.52	45.12	−17	−4	9.27	51.80	−4	+7
23	24.40	46.10	+11	−4	41.91	43.10	−11	−7	58.00	45.27	−17	0	9.53	52.07	+4	+7
24	24.94	45.92	+6	−7	42.48	43.09	−15	−5	58.48	45.42	−14	+3	9.77	52.35	+11	+5
25	25.47	45.75	−1	−8	43.05	43.09	−17	−2	58.95	45.58	−8	+6	10.00	52.63	+15	+2
26	26.02	45.58	−7	−8	43.62	43.09	−16	+1	59.42	45.74	−1	+7	10.22	52.91	+16	−2
27	26.56	45.42	−12	−7	44.19	43.10	−12	+4	59.87	45.91	+7	+6	10.44	53.20	+12	−5
28	27.11	45.26	−16	−4	44.75	43.12	−6	+6	60.32	46.08	+13	+4	10.64	53.48	+6	−8
29	27.66	45.11	−17	−1	45.32	43.14	+2	+7	60.77	46.26	+16	0	10.83	53.77	−2	−8
30	28.21	44.97	−15	+2	45.88	43.16	+9	+5	61.21	46.45	+15	−4	11.02	54.06	−8	−6
31	28.76	44.83	−10	+5	46.44	43.19	+14	+2	61.64	46.64	+10	−7	11.19	54.36	−13	−2
32	29.32	44.70	−3	+6					62.06	46.83	+3	−8	11.36	54.65	−15	+2

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 46′ 40″	25.790	−25.770	−87° 46′ 50″	25.822	−25.802
50	25.822	−25.802	60	25.854	−25.835

$\alpha_{1945.0} = 23^h\ 20^m\ 37^s.25$ $\delta_{1945.0} = -87°\ 47'\ 6''.26$

Scheinbare Sternörter 1945

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$23^h 21^m$	−87° 46′	in $0^s.01$	in $0''.01$	$23^h 21^m$	−87° 47′	in $0^s.01$	in $0''.01$	$23^h 20^m$	−87° 47′	in $0^s.01$	in $0''.01$	$23^h 20^m$	−87° 47′	in $0^s.01$	in $0''.01$
	s	"			s	"			s	"			s	"		
1	11.36	54.65	−15	+2	11.40	4.14	+5	+11	62.04	11.94	+16	0	47.06	15.03	+4	−7
2	11.52	54.95	−12	+6	11.24	4.44	+11	+9	61.61	12.12	+13	−3	46.52	15.03	−2	−7
3	11.66	55.25	−7	+9	11.06	4.74	+15	+6	61.18	12.30	+8	−6	45.98	15.03	−9	−7
4	11.80	55.55	0	+10	10.88	5.03	+16	+2	60.74	12.48	+1	−7	45.43	15.03	−13	−5
5	11.92	55.85	+7	+10	10.68	5.32	+15	−1	60.29	12.65	−5	−8	44.89	15.01	−16	−3
6	12.04	56.15	+12	+7	10.48	5.61	+11	−5	59.83	12.81	−10	−7	44.36	14.99	−17	0
7	12.14	56.45	+16	+4	10.27	5.89	+6	−7	59.37	12.97	−15	−5	43.82	14.96	−14	+3
8	12.24	56.76	+16	+1	10.04	6.17	−1	−8	58.90	13.13	−17	−2	43.28	14.93	−9	+5
9	12.32	57.07	+14	−3	9.81	6.45	−7	−8	58.43	13.28	−17	+1	42.73	14.89	−2	+6
10	12.39	57.38	+9	−6	9.57	6.73	−12	−7	57.95	13.42	−13	+3	42.19	14.85	+6	+5
11	12.46 12.51	57.69 58.00	+3 −3	−8 −9	9.31	7.01	−16	−5	57.47	13.56	−7	+5	41.65	14.80	+12	+3
12	12.56	58.31	−10	−8	9.05	7.28	−18	−2	56.99	13.69	+1	+6	41.11	14.74	+15	−1
13	12.59	58.62	−15	−7	8.78	7.55	−16	+2	56.50	13.82	+8	+4	40.57	14.67	+15	−5
14	12.61	58.93	−18	−4	8.50	7.81	−11	+4	56.00	13.94	+14	+1	40.04	14.60	+11	−8
15	12.63	59.24	−18	0	8.22	8.08	−4	+6	55.50	14.05	+16	−3	39.50	14.52	+3	−10
16	12.63	59.55	−14	+3	7.92	8.33	+5	+5	55.00	14.16	+13	−6	38.97	14.44	−5	−9
17	12.62	59.86	−8	+5	7.61	8.59	+11	+3	54.49	14.26	+8	−9	38.44	14.35	−12	−6
18	12.60	60.17	0	+6	7.29	8.84	+15	0	53.97	14.36	0	−9	37.91	14.25	−16	−2
19	12.57	60.48	+8	+5	6.97	9.09	+16	−4	53.46	14.45	−8	−8	37.38	14.15	−15	+3
20	12.53	60.79	+14	+3	6.64	9.34	+11	−7	52.94	14.54	−14	−4	36.86	14.04	−11	+8
21	12.48	61.10	+16	−1	6.30	9.58	+4	−9	52.42	14.61	−15	+1	36.34	13.92	−4	+11
22	12.42	61.41	+14	−5	5.95	9.81	−4	−8	51.89	14.68	−14	+6	35.82	13.80	+4	+12
23	12.35	61.72	+9	−7	5.60	10.05	−10	−5	51.37	14.75	−8	+10	35.31	13.67	+11	+10
24	12.27	62.02	+1	−8	5.23	10.28	−14	−1	50.84	14.81	−1	+12	34.80	13.54	+16	+7
25	12.18	62.33	−6	−6	4.86	10.50	−14	+4	50.31	14.86	+7	+11	34.29	13.40	+18	+4
26	12.07	62.63	−12	−3	4.48	10.72	−11	+8	49.78	14.90	+13	+9	33.79	13.25	+16	0
27	11.96	62.94	−14	+1	4.09	10.93	−5	+11	49.24	14.94	+17	+6	33.29	13.09	+12	−4
28	11.84	63.24	−13	+5	3.70	11.14	+2	+11	48.70	14.97	+17	+2	32.79	12.93	+6	−6
29	11.70	63.54	−8	+9	3.29	11.35	+9	+10	48.15	15.00	+15	−2	32.30	12.77	0	−7
30	11.56	63.84	−2	+11	2.88	11.55	+14	+7	47.61	15.02	+10	−5	31.81	12.60	−6	−7
31	11.40	64.14	+5	+11	2.47	11.75	+17	+4	47.06	15.03	+4	−7	31.32	12.42	−12	−6
32					2.04	11.94	+16	0					30.84	12.24	−16	−4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 46′ 50″	25.822	−25.802	−87° 47′ 0″	25.854	−25.835	−87° 47′ 10″	25.887	−25.867
60	25.854	−25.835	10	25.887	−25.867	20	25.919	−25.900

$\alpha_{1945.0} = 23^h\ 20^m\ 37^s.25$ $\delta_{1945.0} = -87°\ 47'\ 6''.26$

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1945		x	y	x	y	x	y	x	y	in x Einh.	in y 0″.01
Jan.	0	−393″.67	+78″.83	−195″.27	+863″.75	−1175″.28	−345″.97	+47″.86	−313″.77	− 8	+5
	1	393.68	78.48	195.28	863.41	1175.29	346.32	48.00	314.08	− 9	+2
	2	393.68	78.14	195.28	863.06	1175.29	346.67	48.13	314.39	− 9	−1
	3	393.67	77.80	195.27	862.72	1175.28	347.01	48.27	314.70	− 7	−5
	4	393.66	77.45	195.26	862.38	1175.27	347.35	48.42	315.01	− 5	−7
	5	−393.64	+77.11	−195.24	+862.04	−1175.25	−347.69	+48.58	−315.32	− 1	−8
	6	393.62	76.78	195.22	861.70	1175.23	348.03	48.75	315.62	+ 2	−8
	7	393.59	76.44	195.19	861.37	1175.20	348.37	48.92	315.92	+ 6	−6
	8	393.55	76.10	195.15	861.03	1175.16	348.71	49.10	316.22	+ 8	−4
	9	393.51	75.76	195.11	860.69	1175.12	349.05	49.28	316.52	+10	0
	10	−393.46	+75.43	−195.06	+860.36	−1175.07	−349.39	+49.46	−316.82	+ 9	+4
	11	393.40	75.09	195.00	860.03	1175.01	349.72	49.66	317.11	+ 7	+7
	12	393.34	74.76	194.94	859.70	1174.95	350.05	49.85	317.40	+ 4	+9
	13	393.27	74.43	194.87	859.37	1174.88	350.38	50.06	317.68	0	+9
	14	393.19	74.10	194.80	859.04	1174.81	350.71	50.27	317.97	− 3	+8
	15	−393.11	+73.78	−194.72	+858.71	−1174.73	−351.04	+50.48	−318.24	− 6	+5
	16	393.02	73.45	194.63	858.39	1174.64	351.37	50.70	318.52	− 7	0
	17	392.92	73.13	194.53	858.07	1174.54	351.69	50.93	318.79	− 7	−4
	18	392.82	72.81	194.43	857.75	1174.44	352.01	51.16	319.06	− 4	−7
	19	392.71	72.49	194.33	857.43	1174.34	352.33	51.39	319.33	− 1	−9
	20	−392.60	+72.17	−194.22	+857.11	−1174.22	−352.65	+51.63	−319.59	+ 3	−8
	21	392.48	71.86	194.10	856.80	1174.10	352.97	51.88	319.85	+ 5	−6
	22	392.35	71.55	193.97	856.49	1173.98	353.28	52.13	320.11	+ 7	−2
	23	392.22	71.24	193.84	856.18	1173.85	353.59	52.38	320.36	+ 6	+2
	24	392.08	70.94	193.71	855.88	1173.71	353.89	52.64	320.61	+ 3	+6
	25	−391.94	+70.64	−193.56	+855.58	−1173.57	−354.20	+52.91	−320.86	0	+8
	26	391.79	70.34	193.41	855.28	1173.41	354.49	53.18	321.10	− 4	+8
	27	391.63	70.05	193.25	854.99	1173.26	354.79	53.45	321.34	− 7	+6
	28	391.47	69.76	193.09	854.70	1173.09	355.08	53.73	321.58	− 9	+3
	29	391.31	69.47	192.93	854.41	1172.93	355.37	54.01	321.81	− 9	0
	30	−391.14	+69.18	−192.76	+854.12	−1172.76	−355.66	+54.30	−322.04	− 8	−3
	31	390.96	68.90	192.58	853.84	1172.58	355.94	54.59	322.27	− 6	−6
Febr.	1	390.78	68.62	192.40	853.56	1172.40	356.22	54.88	322.49	− 3	−8
	2	390.59	68.35	192.21	853.29	1172.21	356.49	55.18	322.70	+ 1	−8
	3	390.39	68.08	192.01	853.02	1172.01	356.76	55.48	322.92	+ 4	−7
	4	−390.19	+67.82	−191.81	+852.76	−1171.81	−357.02	+55.79	−323.12	+ 7	−5
	5	389.99	67.56	191.61	852.50	1171.61	357.28	56.10	323.33	+10	−2
	6	−389.78	+67.30	−191.40	+852.24	−1171.40	−357.54	+56.42	−323.53	+10	+2
Mittl. Ort		−379″.87	+78″.45	−181″.54	+863″.38	−1161″.46	−346″.41	+74″.47	−307″.25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1945	x	y	x	y	x	y	x	y	in x Einh.	in y 0".01
Febr.	−389.78"	+67.30"	−191.40"	+852.24"	−1171.40"	−357.54"	+56.42"	−323.53"	+10	+ 2
6	389.56	67.05	191.18	851.99	1171.18	357.79	56.74	323.72	+ 9	+ 6
7	389.34	66.80	190.96	851.74	1170.96	358.04	57.06	323.91	+ 6	+ 8
9	389.12	66.56	190.74	851.50	1170.74	358.28	57.38	324.10	+ 3	+10
10	388.89	66.32	190.51	851.26	1170.51	358.52	57.71	324.29	− 1	+ 9
11	−388.66	+66.08	−190.28	+851.02	−1170.28	−358.76	+58.04	−324.47	− 5	+ 6
12	388.42	65.86	190.04	850.80	1170.04	358.98	58.38	324.64	− 7	+ 2
13	388.18	65.63	189.80	850.57	1169.80	359.21	58.71	324.81	− 7	− 2
14	387.93	65.41	189.56	850.35	1169.56	359.43	59.06	324.97	− 5	− 6
15	387.68	65.20	189.31	850.14	1169.31	359.64	59.40	325.13	− 2	− 9
16	−387.43	+64.99	−189.06	+849.93	−1169.06	−359.85	+59.75	−325.28	+ 1	− 9
17	387.17	64.79	188.80	849.73	1168.80	360.05	60.10	325.43	+ 4	− 7
18	386.91	64.59	188.54	849.53	1168.54	360.25	60.45	325.58	+ 6	− 4
19	386.65	64.40	188.28	849.34	1168.28	360.44	60.80	325.72	+ 6	+ 1
20	386.38	64.21	188.01	849.15	1168.01	360.63	61.16	325.86	+ 4	+ 5
21	−386.11	+64.03	−187.74	+848.97	−1167.74	−360.81	+61.52	−325.99	+ 1	+ 7
22	385.83	63.85	187.46	848.80	1167.46	360.99	61.88	326.12	− 3	+ 8
23	385.56	63.68	187.19	848.63	1167.19	361.16	62.25	326.24	− 6	+ 7
24	385.27	63.52	186.90	848.46	1166.90	361.32	62.61	326.36	− 8	+ 5
25	384.99	63.36	186.62	848.31	1166.62	361.48	62.98	326.47	− 9	+ 1
26	−384.70	+63.21	−186.33	+848.16	−1166.33	−361.63	+63.35	−326.58	− 9	− 2
27	384.41	63.06	186.04	848.01	1166.04	361.78	63.73	326.68	− 7	− 5
28	384.12	62.92	185.75	847.87	1165.75	361.92	64.10	326.78	− 4	− 7
März 1	383.83	62.78	185.46	847.73	1165.45	362.06	64.47	326.87	− 1	− 8
2	383.53	62.65	185.16	847.60	1165.15	362.19	64.85	326.96	+ 3	− 8
3	−383.23	+62.52	−184.86	+847.48	−1164.85	−362.32	+65.23	−327.05	+ 6	− 6
4	382.93	62.41	184.56	847.36	1164.55	362.43	65.61	327.12	+ 9	− 3
5	382.63	62.30	184.26	847.25	1164.24	362.54	65.99	327.20	+10	0
6	382.32	62.19	183.95	847.15	1163.94	362.65	66.37	327.27	+10	+ 4
7	382.02	62.09	183.65	847.05	1163.63	362.75	66.75	327.33	+ 8	+ 7
8	−381.70	+62.00	−183.33	+846.96	−1163.32	−362.84	+67.14	−327.39	+ 5	+ 9
9	381.39	61.92	183.02	846.88	1163.01	362.92	67.53	327.44	+ 1	+10
10	381.08	61.84	182.71	846.80	1162.70	363.00	67.92	327.49	− 3	+ 8
11	380.77	61.76	182.40	846.72	1162.39	363.08	68.32	327.53	− 5	+ 4
12	380.45	61.69	182.08	846.65	1162.08	363.15	68.71	327.57	− 6	0
13	−380.14	+61.63	−181.77	+846.59	−1161.76	−363.21	+69.10	−327.61	− 6	− 5
14	379.82	61.58	181.45	846.54	1161.45	363.26	69.49	327.64	− 3	− 8
15	−379.51	+61.53	−181.14	+846.49	−1161.13	−363.31	+69.88	−327.66	0	− 9
Mittl. Ort	−379.87"	+78.45"	−181.54"	+863.38"	−1161.46"	−346.41"	+74.47"	−307.25"		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Nutationsgl.*)	
1945	x	y	x	y	x	y	x	y	in x Einh.	in y 0″01
März 15	−379″51	+61″53	−181″14	+846″49	−1161″13	−363″31	+69″88	−327″66	0	− 9
16	379.19	61.49	180.82	846.45	1160.82	363.35	70.26	327.68	+ 4	− 8
17	378.87	61.45	180.50	846.41	1160.50	363.39	70.65	327.70	+ 6	− 5
18	378.55	61.42	180.18	846.38	1160.18	363.42	71.04	327.71	+ 6	− 1
19	378.23	61.40	179.86	846.36	1159.86	363.44	71.42	327.71	+ 5	+ 3
20	−377.91	+61.38	−179.54	+846.34	−1159.54	−363.46	+71.81	−327.71	+ 2	+ 7
21	377.58	61.37	179.22	846.33	1159.22	363.47	72.20	327.70	− 2	+ 8
22	377.26	61.36	178.90	846.32	1158.90	363.48	72.60	327.69	− 6	+ 8
23	376.94	61.36	178.59	846.32	1158.58	363.48	72.99	327.68	− 8	+ 6
23	376.63	61.37	178.27	846.33	1158.27	363.47	73.37	327.66	−10	+ 2
24	−376.31	+61.39	−177.96	+846.35	−1157.95	−363.46	+73.76	−327.63	−10	− 1
25	376.00	61.41	177.64	846.37	1157.64	363.44	74.15	327.60	− 8	− 4
26	375.69	61.43	177.33	846.39	1157.32	363.41	74.53	327.57	− 5	− 7
27	375.38	61.47	177.02	846.43	1157.01	363.38	74.92	327.53	− 2	− 8
28	375.07	61.51	176.71	846.47	1156.70	363.34	75.30	327.48	+ 1	− 8
29	−374.75	+61.55	−176.40	+846.51	−1156.39	−363.30	+75.69	−327.43	+ 5	− 7
30	374.43	61.60	176.09	846.56	1156.07	363.25	76.08	327.38	+ 7	− 4
31	374.12	61.66	175.78	846.62	1155.77	363.19	76.46	327.32	+ 9	− 1
April 1	373.81	61.72	175.47	846.68	1155.46	363.13	76.84	327.25	+ 9	+ 3
2	373.51	61.79	175.17	846.75	1155.15	363.06	77.22	327.18	+ 8	+ 6
3	−373.20	+61.87	−174.86	+846.83	−1154.85	−362.98	+77.60	−327.11	+ 6	+ 9
4	372.91	61.95	174.56	846.91	1154.55	362.90	77.98	327.03	+ 3	+10
5	372.61	62.03	174.26	846.99	1154.24	362.82	78.36	326.94	− 1	+ 9
6	372.32	62.12	173.97	847.08	1153.95	362.73	78.73	326.85	− 4	+ 6
7	372.03	62.22	173.67	847.18	1153.65	362.63	79.10	326.76	− 6	+ 2
8	−371.73	+62.32	−173.37	+847.28	−1153.35	−362.53	+79.48	−326.66	− 6	− 3
9	371.44	62.43	173.08	847.39	1153.06	362.42	79.85	326.56	− 4	− 7
10	371.14	62.54	172.79	847.50	1152.77	362.31	80.22	326.46	0	− 9
11	370.86	62.66	172.51	847.62	1152.48	362.19	80.59	326.35	+ 3	− 9
12	370.58	62.79	172.23	847.75	1152.20	362.06	80.95	326.23	+ 6	− 7
13	−370.30	+62.92	−171.95	+847.88	−1151.92	−361.93	+81.32	−326.11	+ 7	− 3
14	370.02	63.05	171.67	848.01	1151.65	361.80	81.68	325.99	+ 6	+ 2
15	369.76	63.20	171.40	848.16	1151.37	361.65	82.03	325.86	+ 4	+ 6
16	369.49	63.35	171.13	848.31	1151.11	361.50	82.39	325.72	0	+ 8
17	369.23	63.50	170.87	848.46	1150.84	361.35	82.74	325.58	− 4	+ 8
18	−368.96	+63.66	−170.60	+848.62	−1150.57	−361.19	+83.09	−325.44	− 8	+ 7
19	368.70	63.82	170.34	848.78	1150.31	361.03	83.45	325.29	−10	+ 4
20	−368.44	+63.98	−170.08	+848.94	−1150.05	−360.87	+83.79	−325.14	−11	0
Mittl. Ort	−379″87	+78″45	−181″54	+863″38	−1161″46	−346″41	+74″47	−307″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*	
1945	x	y	x	y	x	y	x	y	in x Einh. 0.″01	in y
April 20	−368.″44	+63.″98	−170.″08	+848.″94	−1150.″05	−360.″87	+83.″79	−325.″14	−11	0
21	368.18	64.15	169.83	849.11	1149.80	360.70	84.14	324.98	− 9	−3
22	367.93	64.33	169.58	849.29	1149.55	360.52	84.48	324.82	− 7	−6
23	367.69	64.51	169.34	849.47	1149.31	360.34	84.82	324.66	− 4	−8
24	367.45	64.70	169.10	849.66	1149.07	360.16	85.15	324.49	0	−8
25	−367.21	+64.89	−168.86	+849.85	−1148.83	−359.97	+85.48	−324.32	+ 3	−7
26	366.98	65.09	168.63	850.05	1148.60	359.77	85.81	324.14	+ 6	−5
27	366.76	65.29	168.40	850.25	1148.37	359.57	86.13	323.96	+ 8	−2
28	366.53	65.49	168.17	850.45	1148.14	359.37	86.45	323.78	+ 9	+1
29	366.30	65.70	167.95	850.66	1147.92	359.16	86.77	323.59	+ 8	+5
30	−366.08	+65.91	−167.73	+850.87	−1147.70	−358.95	+87.09	−323.40	+ 7	+8
Mai 1	365.87	66.13	167.52	851.08	1147.49	358.73	87.40	323.20	+ 4	+9
2	365.66	66.35	167.32	851.30	1147.28	358.51	87.71	323.00	0	+9
3	365.46	66.57	167.11	851.52	1147.08	358.29	88.02	322.80	− 3	+7
4	365.26	66.80	166.92	851.75	1146.88	358.06	88.32	322.59	− 5	+4
5	−365.07	+67.03	−166.73	+851.98	−1146.69	−357.83	+88.62	−322.38	− 6	−1
6	364.89	67.27	166.54	852.22	1146.50	357.59	88.92	322.16	− 4	−5
7	364.71	67.51	166.36	852.46	1146.32	357.35	89.21	321.94	− 2	−8
8	364.53	67.75	166.18	852.70	1146.14	357.11	89.50	321.72	+ 2	−9
9	364.35	67.99	166.00	852.94	1145.97	356.87	89.78	321.49	+ 5	−8
10	−364.18	+68.24	−165.83	+853.19	−1145.80	−356.62	+90.07	−321.26	+ 8	−5
11	364.02	68.49	165.67	853.44	1145.63	356.37	90.34	321.03	+ 8	0
12	363.86	68.75	165.51	853.70	1145.48	356.11	90.61	320.79	+ 6	+4
13	363.71	69.00	165.36	853.95	1145.32	355.86	90.88	320.55	+ 2	+7
14	363.56	69.27	165.21	854.22	1145.17	355.59	91.15	320.31	− 2	+9
15	−363.42	+69.53	−165.07	+854.48	−1145.03	−355.33	+91.40	−320.06	− 6	+8
16	363.29	69.80	164.94	854.75	1144.89	355.06	91.66	319.81	− 9	+5
17	363.16	70.07	164.81	855.02	1144.76	354.79	91.91	319.56	−11	+2
18	363.03	70.34	164.68	855.29	1144.63	354.52	92.16	319.31	−10	−2
19	362.91	70.61	164.56	855.56	1144.51	354.25	92.40	319.05	− 9	−5
20	−362.79	+70.89	−164.45	+855.84	−1144.39	−353.97	+92.64	−318.79	− 5	−8
21	362.68	71.17	164.34	856.12	1144.28	353.69	92.88	318.53	− 2	−8
22	362.58	71.45	164.23	856.40	1144.17	353.41	93.11	318.26	+ 2	−8
23	362.48	71.73	164.13	856.68	1144.07	353.13	93.33	317.99	+ 5	−6
24	362.38	72.02	164.04	856.97	1143.98	352.84	93.55	317.72	+ 7	−3
25	−362.30	+72.30	−163.95	+857.25	−1143.89	−352.56	+93.77	−317.44	+ 8	0
26	362.22	72.60	163.87	857.55	1143.81	352.26	93.98	317.16	+ 8	+4
27	−362.14	+72.89	−163.80	+857.84	−1143.73	−351.97	+94.18	−316.88	+ 7	+7
Mittl. Ort	−379.″87	+78.″45	−181.″54	+863.″38	−1161.″46	−346.″41	+74.″47	−307.″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Nutationsgl.*)	
1945	x	y	x	y	x	y	x	y	in x Einh. 0″01	in y
Mai 27	−362″14	+72″89	−163″80	+857″84	−1143″73	−351″97	+94″18	−316″88	+ 7	+7
28	362.07	73.18	163.73	858.13	1143.66	351.68	94.38	316.60	+ 4	+9
29	362.00	73.47	163.66	858.43	1143.59	351.38	94.58	316.32	+ 1	+9
30	361.94	73.76	163.60	858.72	1143.53	351.09	94.77	316.03	− 2	+8
31	361.89	74.06	163.55	859.01	1143.48	350.79	94.95	315.74	− 5	+5
Juni 1	−361.84	+74.36	−163.50	+859.31	−1143.43	−350.49	+95.13	−315.45	− 6	+1
2	361.79	74.66	163.46	859.61	1143.38	350.20	95.31	315.15	− 5	−4
3	361.76	74.96	163.42	859.91	1143.35	349.90	95.48	314.86	− 3	−7
4	361.72	75.26	163.39	860.21	1143.31	349.59	95.64	314.56	0	−9
5	361.70	75.56	163.37	860.51	1143.29	349.29	95.80	314.26	+ 4	−9
6	−361.68	+75.87	−163.35	+860.81	−1143.27	−348.99	+95.96	−313.95	+ 7	−6
7	361.67	76.18	163.34	861.11	1143.25	348.69	96.11	313.65	+ 8	−2
8	361.66	76.48	163.33	861.41	1143.24	348.39	96.26	313.34	+ 7	+2
9	361.65	76.79	163.33	861.71	1143.24	348.09	96.40	313.04	+ 5	+6
10	361.66	77.09	163.33	862.02	1143.24	347.79	96.53	312.73	+ 1	+8
11	−361.67	+77.40	−163.34	+862.32	−1143.25	−347.48	+96.66	−312.42	− 4	+9
12	361.68	77.70	163.36	862.63	1143.27	347.18	96.78	312.11	− 8	+7
13	361.70	78.01	163.38	862.93	1143.29	346.87	96.90	311.79	−10	+3
14	361.73	78.31	163.41	863.24	1143.31	346.57	97.01	311.48	−11	0
15	361.76	78.62	163.44	863.55	1143.34	346.26	97.11	311.16	− 9	−4
16	−361.80	+78.92	−163.48	+863.86	−1143.38	−345.95	+97.21	−310.84	− 7	−7
17	361.84	79.23	163.52	864.17	1143.42	345.64	97.31	310.52	− 3	−8
18	361.89	79.53	163.57	864.47	1143.47	345.34	97.40	310.21	0	−8
19	361.95	79.84	163.63	864.78	1143.52	345.03	97.48	309.89	+ 4	−7
20	362.01	80.14	163.69	865.08	1143.58	344.73	97.56	309.57	+ 7	−5
21	−362.07	+80.44	−163.76	+865.38	−1143.65	−344.43	+97.63	−309.25	+ 8	−1
22	362.14	80.75	163.83	865.69	1143.72	344.12	97.70	308.93	+ 8	+3
23	362.22	81.05	163.91	865.99	1143.79	343.82	97.76	308.61	+ 7	+6
24	362.30	81.34	163.99	866.28	1143.88	343.53	97.82	308.29	+ 5	+8
25	362.39	81.64	164.08	866.58	1143.97	343.23	97.87	307.96	+ 2	+9
26	−362.49	+81.94	−164.18	+866.88	−1144.06	−342.93	+97.91	−307.64	− 2	+9
27	362.59	82.24	164.28	867.18	1144.16	342.63	97.95	307.31	− 5	+6
28	362.69	82.54	164.38	867.48	1144.26	342.33	97.98	306.99	− 6	+3
29	362.80	82.84	164.49	867.77	1144.37	342.03	98.01	306.66	− 6	−2
30	362.92	83.13	164.61	868.07	1144.49	341.74	98.03	306.34	− 5	−6
Juli 1	−363.04	+83.42	−164.73	+868.36	−1144.61	−341.45	+98.05	−306.02	− 1	−8
2	363.17	83.71	164.86	-868.65	1144.73	341.16	98.06	305.69	+ 2	−9
3	−363.30	+84.00	−164.99	+868.94	−1144.87	−340.87	+98.06	−305.37	+ 6	−7
Mittl. Ort	−379″87	+78″45	−181″54	+863″38	−1161″46	−346″41	+74″47	−307″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ.06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ.5		Kurzperiod. Nutationsgl.*)	
1945		x	y	x	y	x	y	x	y	in x Einh. 0″.01	in y
Juli	3	−363″.30	+84″.00	−164″.99	+868″.94	−1144″.87	−340″.87	+98″.06	−305″.37	+ 6	−7
	4	363.44	84.29	165.13	869.22	1145,00	340.58	98.06	305.06	+ 8	−4
	5	363.59	84.58	165.28	869.51	1145.15	340.29	98.05	304.74	+ 8	0
	6	363.74	84.86	165.43	869.79	1145.30	340.01	98.04	304.42	+ 6	+5
	7	363.89	85.15	165.58	870.08	1145.45	339.72	98.02	304.10	+ 3	+8
	8	−364.05	+85.43	−165.74	+870.36	−1145.61	−339.44	+98.00	−303.78	− 2	+9
	9	364.21	85.71	165.91	870.64	1145.77	339.16	97.97	303.46	− 6	+8
	10	364.38	85.99	166.08	870.92	1145.94	338.88	97.93	303.14	− 9	+5
	11	364.56	86.26	166.25	871.19	1146.11	338.61	97.89	302.83	−10	+1
	12	364.73	86.54	166.43	871.47	1146.29	338.23	97.85	302.51	−10	−3
	13	−364.92	+86.81	−166.62	+871.74	−1146.47	−337.96	+97.79	−302.20	− 8	−6
	14	365.11	87.07	166.81	872.00	1146.66	337.70	97.74	301.89	− 5	−8
	15	365.30	87.34	167.00	872.27	1146.85	337.43	97.67	301.59	− 1	−9
	16	365.50	87.60	167.20	872.53	1147.05	337.27	97.60	301.28	+ 3	−8
	17	365.70	87.86	167.40	872.80	1147.25	337.00	97.53	300.97	+ 6	−6
	18	−365.91	+88.12	−167.61	+873.06	−1147.46	−336.74	+97.45	−300.66	+ 8	−3
	19	366.12	88.38	167.82	873.32	1147.67	336.48	97.36	300.36	+ 9	+1
	20	366.33	88.63	168.04	873.57	1147.88	336.23	97.27	300.06	+ 8	+5
	21	366.56	88.88	168.26	873.82	1148.10	335.98	97.17	299.76	+ 6	+8
	22	366.78	89.13	168.49	874.07	1148.33	335.73	97.07	299.47	+ 3	+9
	23	−367.01	+89.38	−168.72	+874.32	−1148.56	−335.48	+96.96	−299.17	0	+9
	24	367.25	89.62	168.96	874.56	1148.79	335.24	96.85	298.88	− 4	+7
	25	367.49	89.86	169.20	874.80	1149.03	335.00	96.73	298.59	− 6	+4
	26	367.74	90.10	169.45	875.03	1149.28	334.77	96.60	298.31	− 7	0
	27	367.99	90.34	169.70	875.26	1149.53	334.54	96.47	298.02	− 5	−5
	28	−368.24	+90.57	−169.95	+875.50	−1149.78	−334.30	+96.33	−297.74	− 3	−8
	29	368.49	90.80	170.21	875.72	1150.03	334.08	96.19	297.46	0	−9
	30	368.75	91.02	170.47	875.95	1150.29	333.85	96.05	297.18	+ 4	−8
	31	369.02	91.24	170.73	876.17	1150.56	333.63	95.90	296.91	+ 7	−6
Aug.	1	369.28	91.46	171.00	876.39	1150.82	333.41	95.74	296.64	+ 8	−1
	2	−369.56	+91.68	−171.27	+876.60	−1151.10	−333.20	+95.58	−296.37	+ 7	+3
	3	369.83	91.89	171.55	876.81	1151.37	332.99	95.42	296.11	+ 4	+7
	4	370.11	92.10	171.83	877.02	1151.65	332.78	95.25	295.85	0	+8
	5	370.40	92.30	172.12	877.22	1151.94	332.58	95.07	295.59	− 4	+8
	6	370.69	92.50	172.41	877.42	1152.23	332.38	94.89	295.33	− 8	+6
	7	−370.98	+92.70	−172.70	+877.62	−1152.52	−332.18	+94.71	−295.08	− 9	+3
	8	371.28	92.90	173.00	877.82	1152.81	331.98	94.52	294.83	−10	−1
	9	−371.57	+93.09	−173.29	+878.01	−1153.11	−331.79	+94.33	−294.59	− 8	−5
Mittl. Ort		−379″.87	+78″.45	−181″.54	+863″.38	−1161″.46	−346″.41	+74″.47	−307″.25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1945	x	y	x	y	x	y	x	y	in x Einh.	in y 0″01
Aug. 9	−371.″57	+93.″09	−173.″29	+878.″01	−1153.″11	−331.″79	+94.″33	−294.″59	− 8	− 5
10	371.88	93.28	173.60	878.20	1153.41	331.60	94.13	294.35	− 6	− 7
11	372.18	93.46	173.90	878.38	1153.72	331.42	93.93	294.12	− 2	− 8
12	372.49	93.64	174.21	878.56	1154.02	331.24	93.72	293.89	+ 1	− 8
13	372.80	93.81	174.52	878.73	1154.34	331.07	93.51	293.66	+ 5	− 7
14	−373.12	+93.98	−174.84	+878.90	−1154.65	−330.90	+93.29	−293.44	+ 7	− 4
15	373.44	94.15	175.16	879.07	1154.97	330.73	93.07	293.22	+ 9	− 1
16	373.76	94.31	175.48	879.23	1155.29	330.57	92.85	293.00	+ 9	+ 3
17	374.09	94.47	175.80	879.39	1155.61	330.41	92.63	292.79	+ 8	+ 7
18	374.42	94.63	176.13	879.55	1155.94	330.25	92.40	292.58	+ 5	+ 9
19	−374.75	+94.78	−176.46	+879.70	−1156.26	−330.10	+92.17	−292.37	+ 2	+10
20	375.08	94.93	176.79	879.85	1156.60	329.95	91.93	292.18	− 2	+ 8
21	375.42	95.07	177.13	879.99	1156.93	329.81	91.69	291.98	− 5	+ 6
22	375.76	95.21	177.47	880.13	1157.27	329.67	91.44	291.79	− 6	+ 2
23	376.10	95.34	177.81	880.26	1157.61	329.54	91.18	291.61	− 6	− 3
24	−376.44	+95.47	−178.16	+880.39	−1157.96	−329.41	+90.92	−291.43	− 4	− 7
25	376.79	95.60	178.51	880.52	1158.31	329.28	90.66	291.26	− 1	− 9
26	377.14	95.73	178.86	880.64	1158.66	329.16	90.40	291.09	+ 3	− 9
27	377.48	95.85	179.21	880.76	1159.00	329.04	90.14	290.92	+ 6	− 7
28	377.84	95.96	179.56	880.87	1159.36	328.92	89.87	290.76	+ 7	− 3
29	−378.19	+96.07	−179.91	+880.98	−1159.71	−328.81	+89.61	−290.61	+ 7	+ 1
30	378.55	96.18	180.27	881.08	1160.07	328.71	89.33	290.46	+ 4	+ 5
31	378.91	96.28	180.63	881.18	1160.43	328.61	89.06	290.31	+ 1	+ 8
Sept. 1	379.27	96.37	180.99	881.28	1160.79	328.51	88.78	290.18	− 3	+ 9
2	379.63	96.46	181.36	881.37	1161.15	328.42	88.50	290.04	− 7	+ 7
3	−380.00	+96.55	−181.73	+881.46	−1161.52	−328.34	+88.21	−289.92	− 9	+ 4
4	380.37	96.63	182.10	881.54	1161.89	328.26	87.92	289.80	−10	0
5	380.74	96.71	182.47	881.62	1162.26	328.18	87.63	289.68	− 9	− 4
6	381.10	96.78	182.83	881.70	1162.62	328.11	87.34	289.57	− 7	− 7
7	381.48	96.85	183.21	881.77	1163.00	328.04	87.05	289.47	− 4	− 8
8	−381.85	+96.92	−183.58	+881.83	−1163.37	−327.97	+86.75	−289.37	0	− 9
9	382.22	96.98	183.95	881.89	1163.74	327.91	86.46	289.27	+ 3	− 8
10	382.60	97.03	184.33	881.95	1164.12	327.86	86.16	289.18	+ 6	− 5
11	382.98	97.08	184.71	882.00	1164.50	327.81	85.86	289.10	+ 8	− 2
12	383.35	97.13	185.08	882.04	1164.87	327.76	85.56	289.02	+ 9	+ 2
13	−383.74	+97.17	−185.47	+882.08	−1165.26	−327.72	+85.26	−288.95	+ 8	+ 5
14	384.12	97.20	185.85	882.12	1165.64	327.69	84.95	288.89	+ 7	+ 8
15	−384.50	+97.23	−186.23	+882.15	−1166.02	−327.66	+84.64	−288.83	+ 3	+10
Mittl. Ort	−379.″87	+78.″45	−181.″54	+863.″38	−1161.″46	−346.″41	+74.″47	−307.″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Nutationsgl.*)	
1945		x	y	x	y	x	y	x	y	in x Einh.	in y 0.″01
Sept.	15	−384.″50	+97.″23	−186.″23	+882.″15	−1166.″02	−327.″66	+84.″64	−288.″83	+ 3	+10
	16	384.88	97.26	186.61	882.18	1166.40	327.63	84.34	288.77	0	+ 9
	17	385.26	97.28	186.99	882.20	1166.78	327.61	84.03	288.72	− 3	+ 7
	18	385.64	97.30	187.37	882.22	1167.16	327.59	83.72	288.68	− 5	+ 3
	19	386.03	97.31	187.76	882.23	1167.55	327.58	83.41	288.65	− 6	− 1
	20	−386.41	+97.32	−188.14	+882.24	−1167.93	−327.57	+83.10	−288.62	− 5	− 5
	21	386.80	97.32	188.53	882.24	1168.32	327.57	82.79	288.60	− 2	− 8
	22	387.18	97.32	188.91	882.24	1168.70	327.57	82.48	288.58	+ 2	− 9
	23	387.57	97.31	189.30	882.23	1169.09	327.58	82.16	288.57	+ 5	− 8
	24	387.96	97.30	189.69	882.22	1169.48	327.59	81.85	288.57	+ 6	− 5
	25	−388.35	+97.28	−190.08	+882.20	−1169.87	−327.61	+81.54	−288.57	+ 7	0
	26	388.75	97.26	190.47	882.18	1170.26	327.63	81.22	288.57	+ 6	+ 4
	27	389.14	97.24	190.86	882.16	1170.65	327.65	80.91	288.59	+ 2	+ 7
	28	389.53	97.21	191.25	882.13	1171.03	327.68	80.60	288.61	− 2	+ 9
	29	389.91	97.17	191.63	882.09	1171.42	327.72	80.29	288.63	− 6	+ 8
	30	−390.30	+97.13	−192.02	+882.05	−1171.80	−327.76	+79.98	−288.66	− 9	+ 5
Okt.	1	390.68	97.09	192.40	882.01	1172.19	327.80	79.67	288.70	−11	+ 2
	2	391.06	97.04	192.79	881.96	1172.57	327.85	79.36	288.75	−10	− 2
	3	391.44	96.98	193.17	881.90	1172.95	327.91	79.06	288.80	− 8	− 6
	4	391.82	96.92	193.55	881.84	1173.33	327.97	78.75	288.86	− 5	− 8
	5	−392.21	+96.86	−193.93	+881.78	−1173.71	−328.03	+78.44	−288.92	− 2	− 9
	6	392.59	96.79	194.32	881.71	1174.09	328.10	78.14	288.99	+ 2	− 8
	7	392.97	96.72	194.70	881.64	1174.48	328.18	77.84	289.07	+ 5	− 6
	8	393.35	96.64	195.08	881.56	1174.86	328.26	77.54	289.15	+ 7	− 3
	9	393.73	96.55	195.46	881.47	1175.23	328.34	77.24	289.24	+ 9	0
	10	−394.11	+96.47	−195.84	+881.39	−1175.61	−328.43	+76.94	−289.33	+ 8	+ 4
	11	394.49	96.37	196.21	881.29	1175.99	328.53	76.64	289.43	+ 7	+ 7
	12	394.86	96.27	196.59	881.19	1176.36	328.63	76.35	289.53	+ 5	+ 9
	13	395.23	96.17	196.97	881.09	1176.74	328.73	76.06	289.64	+ 2	+10
	14	395.60	96.06	197.34	880.98	1177.11	328.84	75.77	289.76	− 2	+ 8
	15	−395.98	+95.95	−197.72	+880.87	−1177.49	−328.95	+75.48	−289.88	− 4	+ 5
	16	396.35	95.83	198.09	880.75	1177.86	329.07	75.19	290.01	− 5	+ 1
	17	396.73	95.71	198.46	880.63	1178.23	329.19	74.91	290.14	− 5	− 4
	18	397.09	95.58	198.82	880.51	1178.59	329.32	74.63	290.28	− 3	− 8
	19	397.46	95.45	199.19	880.37	1178.96	329.45	74.35	290.42	+ 1	− 9
	20	−397.82	+95.31	−199.55	+880.24	−1179.32	−329.59	+74.08	−290.57	+ 4	− 9
	21	398.18	95.17	199.91	880.10	1179.68	329.73	73.81	290.73	+ 7	− 6
	22	−398.53	+95.02	−200.27	+879.95	−1180.04	−329.88	+73.54	−290.89	+ 8	− 2
Mittl. Ort		−379.″87	+78.″45	−181.″54	+863.″38	−1161.″46	−346.″41	+74.″47	−307.″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10^{m}56		BD +89° 3 Gr. 9^{m}06		BD +89° 37 Gr. 10^{m}06		CPD −89° 38 Gr. 9^{m}5		Kurzperiod. Nutationsgl.*)	
1945		x	y	x	y	x	y	x	y	in x Einh.	in y 0″01
Okt.	22	−398″53	+95″02	−200″27	+879″95	−1180″04	−329″88	+73″54	−290″89	+ 8	− 2
	23	398.88	94.87	200.62	879.80	1180.39	330.03	73.28	291.06	+ 7	+ 3
	24	399.23	94.71	200.97	879.64	1180.74	330.19	73.02	291.23	+ 4	+ 6
	25	399.59	94.55	201.32	879.48	1181.09	330.35	72.76	291.40	0	+ 9
	26	399.94	94.39	201.68	879.32	1181.45	330.51	72.51	291.58	− 5	+ 9
	27	−400.29	+94.22	−202.02	+879.15	−1181.79	−330.68	+72.26	−291.77	− 9	+ 7
	28	400.64	94.05	202.37	878.98	1182.14	330.85	72.01	291.96	−11	+ 3
	29	400.98	93.87	202.71	878.80	1182.48	331.03	71.77	292.15	−11	− 1
	30	401.32	93.69	203.05	878.62	1182.82	331.21	71.53	292.35	−10	− 5
	31	401.65	93.50	203.38	878.43	1183.15	331.40	71.30	292.56	− 7	− 7
Nov.	1	−401.98	+93.31	−203.71	+878.24	−1183.48	−331.60	+71.07	−292.77	− 3	− 9
	2	402.30	93.11	204.04	878.04	1183.81	331.80	70.85	292.99	0	− 8
	3	402.62	92.91	204.36	877.84	1184.13	332.00	70.63	293.22	+ 4	− 7
	4	402.95	92.71	204.69	877.64	1184.46	332.20	70.41	293.45	+ 6	− 4
	5	403.27	92.50	205.01	877.43	1184.78	332.41	70.20	293.68	+ 8	− 1
	6	−403.59	+92.29	−205.32	+877.22	−1185.09	−332.63	+69.99	−293.91	+ 8	+ 2
	7	403.91	92.07	205.64	877.00	1185.41	332.84	69.79	294.15	+ 7	+ 6
	8	404.21	91.85	205.94	876.78	1185.71	333.07	69.60	294.39	+ 5	+ 8
	9	404.52	91.62	206.25	876.55	1186.02	333.29	69.40	294.64	+ 2	+ 9
	10	404.82	91.39	206.55	876.32	1186.32	333.52	69.22	294.89	− 1	+ 9
	11	−405.11	+91.16	−206.84	+876.09	−1186.61	−333.76	+69.04	−295.15	− 3	+ 7
	12	405.40	90.92	207.13	875.85	1186.90	334.00	68.86	295.41	− 5	+ 3
	13	405.68	90.68	207.42	875.61	1187.19	334.24	68.69	295.67	− 5	− 2
	14	405.97	90.44	207.71	875.37	1187.48	334.48	68.52	295.94	− 3	− 6
	15	406.26	90.19	207.99	875.12	1187.76	334.73	68.36	296.20	0	− 9
	16	−406.54	+89.94	−208.27	+874.87	−1188.04	−334.98	+68.21	−296.48	+ 3	−10
	17	406.81	89.68	208.54	874.61	1188.31	335.24	68.06	296.75	+ 7	− 8
	18	407.08	89.42	208.81	874.35	1188.58	335.50	67.91	297.03	+ 9	− 4
	19	407.34	89.15	209.07	874.09	1188.84	335.77	67.77	297.31	+ 9	0
	20	407.60	88.88	209.33	873.82	1189.10	336.04	67.64	297.60	+ 6	+ 5
	21	−407.85	+88.61	−209.58	+873.55	−1189.35	−336.31	+67.51	−297.89	+ 2	+ 8
	22	408.09	88.33	209.83	873.27	1189.60	336.59	67.39	298.18	− 2	+ 9
	23	408.33	88.05	210.07	872.99	1189.84	336.87	67.28	298.48	− 7	+ 8
	24	408.58	87.77	210.31	872.71	1190.08	337.15	67.17	298.77	−10	+ 5
	25	408.82	87.49	210.55	872.43	1190.32	337.44	67.07	299.07	−12	+ 1
	26	−409.05	+87.20	−210.78	+872.14	−1190.55	−337.72	+66.97	−299.37	−11	− 3
	27	409.27	86.91	211.01	871.85	1190.77	338.02	66.88	299.68	− 9	− 7
	28	−409.49	+86.61	−211.23	+871.56	−1190.99	−338.31	+66.80	−299.98	− 5	− 9
Mittl. Ort		−379″87	+78″45	−181″54	+863″38	−1161″46	−346″41	+74″47	−307″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1945

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^{m}.56$		BD +89° 3 Gr. $9^{m}.06$		BD +89° 37 Gr. $10^{m}.06$		CPD −89° 38 Gr. $9^{m}.5$		Kurzperiod. Nutationsgl.*)	
1945	x	y	x	y	x	y	x	y	in x Einh.	in y 0.″01
Nov. 28	−409.″49	+86.″61	−211.″23	+871.″56	−1190.″99	−338.″31	+66.″80	−299.″98	− 5	−9
29	409.71	86.32	211.44	871.26	1191.21	338.61	66.72	300.29	− 1	−9
30	409.91	86.01	211.65	870.96	1191.41	338.91	66.65	300.60	+ 2	−8
Dez. 1	410.11	85.71	211.85	870.66	1191.62	339.22	66.59	300.91	+ 5	−6
2	410.30	85.40	212.05	870.35	1191.81	339.53	66.53	301.23	+ 7	−2
3	−410.49	+85.09	−212.24	+870.04	−1192.00	−339.84	+66.48	−301.55	+ 8	+2
4	410.68	84.78	212.43	869.73	1192.19	340.15	66.43	301.87	+ 7	+5
5	410.86	84.47	212.61	869.42	1192.37	340.46	66.39	302.19	+ 5	+7
6	411.04	84.16	212.78	869.11	1192.54	340.78	66.36	302.50	+ 3	+9
7	411.21	83.84	212.95	868.79	1192.71	341.10	66.34	302.82	0	+9
8	−411.37	+83.52	−213.12	+868.47	−1192.88	−341.42	+66.32	−303.15	− 3	+7
9	411.53	83.20	213.28	868.15	1193.04	341.74	66.30	303.47	− 5	+4
10	411.68	82.87	213.43	867.83	1193.19	342.07	66.30	303.79	− 6	0
11	411.82	82.54	213.58	867.50	1193.34	342.39	66.30	304.12	− 5	−4
12	411.96	82.21	213.72	867.17	1193.48	342.73	66.31	304.44	− 2	−8
13	−412.09	+81.88	−213.85	+866.84	−1193.61	−343.06	+66.32	−304.77	+ 2	−9
14	412.22	81.55	213.98	866.51	1193.74	343.39	66.34	305.10	+ 6	−9
15	412.34	81.21	214.10	866.18	1193.86	343.72	66.36	305.43	+ 9	−6
16	412.46	80.88	214.22	865.85	1193.98	344.05	66.39	305.76	+10	−2
17	412.57	80.54	214.33	865.51	1194.09	344.39	66.43	306.08	+ 8	+3
18	−412.67	+80.20	−214.43	+865.18	−1194.19	−344.73	+66.48	−306.41	+ 5	+7
19	412.76	79.87	214.53	864.84	1194.29	345.07	66.53	306.73	+ 1	+9
20	412.85	79.53	214.62	864.50	1194.38	345.41	66.59	307.06	− 4	+9
21	412.94	79.18	214.70	864.16	1194.46	345.75	66.65	307.38	− 8	+7
22	413.01	78.84	214.78	863.82	1194.54	346.09	66.72	307.70	−11	+3
23	−413.08	+78.50	−214.85	+863.47	−1194.61	−346.44	+66.80	−308.02	−11	−1
24	413.15	78.16	214.92	863.13	1194.68	346.78	66.88	308.35	−10	−5
25	413.20	77.81	214.98	862.79	1194.73	347.12	66.97	308.67	− 7	−8
26	413.26	77.47	215.03	862.45	1194.79	347.46	67.07	308.99	− 3	−9
27	413.30	77.13	215.07	862.11	1194.83	347.81	67.17	309.31	+ 1	−9
28	−413.34	+76.78	−215.11	+861.76	−1194.87	−348.15	+67.28	−309.63	+ 4	−7
29	413.37	76.44	215.15	861.42	1194.90	348.50	67.40	309.95	+ 6	−3
30	413.40	76.10	215.17	861.07	1194.93	348.84	67.52	310.27	+ 8	0
31	413.41	75.75	215.19	860.73	1194.94	349.19	67.65	310.58	+ 7	+4
32	−413.43	+75.41	−215.20	+860.38	−1194.96	−349.54	+67.79	−310.89	+ 6	+7
Mittl. Ort	−379.″87	+78.″45	−181.″54	+863.″38	−1161.″46	−346.″41	+74.″47	−307.″25		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34213 + 0.00034\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02525\sin 2L_{\odot}$$
$$+ 0.00250\sin M_{\odot} - 0.00099\sin(2L_{\odot} + M_{\odot}) + 0.00042\sin(2L_{\odot} - M_{\odot})$$
$$+ 0.00024\sin(2L_{\odot} - \Omega) + 0.00010\sin(2L_{☾} - 2M_{☾} - \Omega)$$
$$+ 0.00008\sin(2L_{\odot} - 2L_{☾} + 2M_{☾})$$

$$A' = -0.00405\sin 2L_{☾} + 0.00135\sin M_{☾} - 0.00067\sin(2L_{☾} - \Omega)$$
$$- 0.00052\sin(2L_{☾} + M_{☾}) + 0.00030\sin(2L_{☾} - 2L_{\odot} - M_{☾})$$
$$+ 0.00022\sin(2L_{☾} - M_{☾}) + 0.00012\sin(2L_{☾} - 2L_{\odot})$$
$$+ 0.00012\sin(M_{☾} + \Omega) + 0.00012\sin(M_{☾} - \Omega)$$
$$- 0.00010\sin(4L_{☾} - 2L_{\odot} - M_{☾}) - 0.00008\sin(2L_{☾} + M_{☾} - \Omega)$$

$$B = -(9''210 + 0''001\,T)\cos\Omega + 0''090\cos 2\Omega - 0''551\cos 2L_{\odot}$$
$$- 0''022\cos(2L_{\odot} + M_{\odot}) + 0''009\cos(2L_{\odot} - M_{\odot})$$
$$+ 0''007\cos(2L_{\odot} - \Omega) + 0''003\cos(2L_{☾} - 2M_{☾} - \Omega)$$

$$B' = -0''089\cos 2L_{☾} - 0''018\cos(2L_{☾} - \Omega) - 0''011\cos(2L_{☾} + M_{☾})$$
$$+ 0''005\cos(2L_{☾} - M_{☾}) + 0''003\cos(M_{☾} + \Omega) - 0''003\cos(M_{☾} - \Omega)$$
$$- 0''002\cos(4L_{☾} - 2L_{\odot} - M_{☾}) - 0''002\cos(2L_{☾} + M_{☾} - \Omega)$$

$$C = -20''47\cos\odot\cos\varepsilon$$
$$D = -20''47\sin\odot$$
$$E = -(0^s0029 - 0^s0004\,T)\sin\Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren,
t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres;
$t = 0$ für 1945 Januar $0^d.7124$ Welt-Zeit.

$a = m + {}^1/_{15}\,n\sin\alpha\,\mathrm{tg}\,\delta$	$a' = n\cos\alpha$
$b = {}^1/_{15}\cos\alpha\,\mathrm{tg}\,\delta$	$b' = -\sin\alpha$
$c = {}^1/_{15}\cos\alpha\sec\delta$	$c' = \mathrm{tg}\,\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = {}^1/_{15}\sin\alpha\sec\delta$	$d' = \cos\alpha\sin\delta$

Für 1945.0 gilt: $m = +3^s0732$, $n = +20''043$, $\varepsilon = 23^\circ\,26'\,47''17$

$$\alpha_{app.} = \alpha_{1945.0} + t\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{app.} = \delta_{1945.0} + t\mu_\delta + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination.

Setzt man

$f = mA + E$	$f' = mA'$	$i = C\,\mathrm{tg}\,\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D,$

so wird:

$$\alpha_{app.} = \alpha_{1945.0} + t\mu_\alpha + f + {}^1/_{15}\,g\sin(G+\alpha)\,\mathrm{tg}\,\delta + {}^1/_{15}\,h\sin(H+\alpha)\sec\delta$$
$$+ [f' + {}^1/_{15}\,g'\sin(G'+\alpha)\,\mathrm{tg}\,\delta]$$
$$\delta_{app.} = \delta_{1945.0} + t\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta$$
$$+ [g'\cos(G'+\alpha)]$$

Tag	0h Welt-Zeit								
	Stern-zeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1945	h	s	s		h m		h m		"
Jan. 0	6.6	−0.0020	−0.987	0.8623	10 7.2	1.3102	23 26.2	0.1153_n	−1.304
1	6.7	+0.0008	0.976	0.8581	10 6.6	1.3100	23 22.4	0.1602_n	1.446
2	6.8	0.0035	0.965	0.8539	10 5.9	1.3098	23 18.6	0.2011_n	1.589
3	6.8	0.0063	0.954	0.8496	10 5.3	1.3095	23 14.9	0.2383_n	1.731
4	6.9	0.0090	0.943	0.8453	10 4.7	1.3093	23 11.1	0.2723_n	1.872
5	6.9	0.0117	0.933	0.8410	10 4.1	1.3090	23 7.3	0.3036_n	2.012
6	7.0	0.0145	−0.922	0.8366	10 3.5	1.3088	23 3.5	0.3328_n	−2.152
7	7.1	0.0172	0.911	0.8322	10 2.9	1.3085	22 59.8	0.3602_n	2.292
8	7.1	0.0200	0.901	0.8277	10 2.4	1.3081	22 56.0	0.3856_n	2.430
9	7.2	0.0227	0.890	0.8232	10 1.8	1.3077	22 52.2	0.4096_n	2.568
10	7.3	0.0254	0.880	0.8186	10 1.3	1.3073	22 48.4	0.4322_n	2.705
11	7.4	0.0282	0.869	0.8140	10 0.7	1.3069	22 44.6	0.4536_n	2.842
12	7.4	0.0309	−0.859	0.8094	10 0.2	1.3065	22 40.8	0.4738_n	−2.977
13	7.5	0.0336	0.849	0.8047	9 59.7	1.3060	22 36.9	0.4930_n	3.112
14	7.5	0.0364	0.839	0.8000	9 59.2	1.3056	22 33.1	0.5112_n	3.245
15	7.6	0.0391	0.828	0.7952	9 58.7	1.3051	22 29.3	0.5285_n	3.377
16	7.7	0.0419	0.818	0.7904	9 58.2	1.3047	22 25.4	0.5451_n	3.508
17	7.7	0.0446	0.808	0.7856	9 57.7	1.3042	22 21.6	0.5609_n	3.638
18	7.8	0.0473	−0.799	0.7807	9 57.3	1.3036	22 17.7	0.5760_n	−3.767
19	7.9	0.0501	0.789	0.7758	9 56.9	1.3031	22 13.8	0.5905_n	3.895
20	7.9	0.0528	0.779	0.7709	9 56.5	1.3026	22 9.9	0.6043_n	4.021
21	8.0	0.0555	0.769	0.7659	9 56.1	1.3020	22 6.1	0.6176_n	4.146
22	8.1	0.0583	0.760	0.7609	9 55.7	1.3015	22 2.2	0.6304_n	4.270
23	8.1	0.0610	0.750	0.7559	9 55.3	1.3009	21 58.2	0.6428_n	4.393
24	8.2	0.0638	−0.741	0.7508	9 54.9	1.3003	21 54.3	0.6546_n	−4.514
25	8.3	0.0665	0.732	0.7457	9 54.6	1.2997	21 50.4	0.6659_n	4.633
26	8.3	0.0692	0.723	0.7406	9 54.3	1.2991	21 46.5	0.6769_n	4.752
27	8.4	0.0720	0.714	0.7355	9 54.0	1.2985	21 42.5	0.6874_n	4.868
28	8.5	0.0747	0.705	0.7303	9 53.7	1.2979	21 38.5	0.6976_n	4.984
29	8.5	0.0774	0.696	0.7251	9 53.4	1.2972	21 34.6	0.7072_n	5.096
30	8.6	0.0802	−0.687	0.7199	9 53.1	1.2966	21 30.6	0.7167_n	−5.208
31	8.7	0.0829	0.678	0.7147	9 52.8	1.2959	21 26.6	0.7257_n	5.318
Febr. 1	8.7	0.0857	0.670	0.7094	9 52.5	1.2953	21 22.6	0.7346_n	5.427
2	8.8	0.0884	0.661	0.7041	9 52.3	1.2947	21 18.6	0.7430_n	5.533
3	8.9	0.0911	0.653	0.6988	9 52.1	1.2940	21 14.6	0.7511_n	5.638
4	8.9	0.0939	0.644	0.6935	9 51.8	1.2934	21 10.6	0.7590_n	5.741
5	9.0	0.0966	−0.636	0.6882	9 51.6	1.2927	21 6.5	0.7666_n	−5.843
6	9.1	0.0994	0.628	0.6829	9 51.4	1.2920	21 2.5	0.7739_n	5.942
7	9.1	0.1021	0.620	0.6775	9 51.2	1.2913	20 58.4	0.7810_n	6.040
8	9.2	0.1048	0.612	0.6721	9 51.0	1.2907	20 54.3	0.7878_n	6.135
9	9.2	0.1076	0.604	0.6667	9 50.8	1.2900	20 50.2	0.7944_n	6.229
10	9.3	0.1103	−0.597	0.6613	9 50.6	1.2894	20 46.1	0.8008_n	−6.321

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945	s in 0.001	" in 0.01				" in 0.01	23° 26'		" in 0.01	in 0.001	
Jan. 0	+11	+ 9	h 2.7	" −0.10	" −16.03	+18	" 47.17	" −3.44	− 6	32	89
1	+14	9	1.2	+0.04	15.99	+23	47.17	3.43	− 3	31	89
2	+14	9	23.7	0.18	15.95	+23	47.17	3.41	+ 1	31	89
3	+12	9	22.3	0.32	15.91	+20	47.17	3.39	+ 4	31	89
4	+ 8	8	20.6	0.45	15.87	+14	47.17	3.38	+ 7	31	89
5	+ 3	8	18.9	0.59	15.84	+ 5	47.17	3.36	+ 8	30	89
6	− 3	+ 8	17.3	+0.73	−15.80	− 4	47.17	−3.34	+ 8	30	89
7	− 8	8	15.5	0.87	15.76	−13	47.16	3.32	+ 7	30	89
8	−12	9	13.9	1.00	15.73	−20	47.16	3.30	+ 4	29	89
9	−14	9	12.3	1.14	15.69	−24	47.16	3.28	+ 1	29	89
10	−15	10	10.8	1.28	15.66	−24	47.16	3.26	− 3	29	89
11	−12	10	9.4	1.42	15.63	−20	47.16	3.24	− 6	28	88
12	− 8	+10	8.0	+1.55	−15.60	−12	47.16	−3.22	− 9	28	88
13	− 2	10	6.4	1.69	15.57	− 3	47.16	3.20	−10	28	88
14	+ 4	9	4.8	1.83	15.54	+ 7	47.16	3.17	− 8	27	88
15	+ 9	8	2.8	1.97	15.51	+14	47.15	3.15	− 5	27	88
16	+10	7	0.5	2.10	15.48	+17	47.15	3.13	− 1	27	88
17	+10	7	22.1	2.24	15.45	+16	47.15	3.10	+ 3	27	88
18	+ 7	+ 8	20.3	+2.38	−15.43	+12	47.15	−3.08	+ 7	26	88
19	+ 2	9	18.6	2.52	15.41	+ 4	47.15	3.05	+ 9	26	88
20	− 3	9	17.0	2.66	15.39	− 6	47.15	3.03	+ 8	26	88
21	− 8	8	15.4	2.79	15.37	−13	47.15	3.00	+ 6	25	87
22	−10	7	13.4	2.93	15.35	−16	47.15	2.98	+ 3	25	87
23	− 9	6	11.0	3.07	15.33	−15	47.14	2.95	− 2	25	87
24	− 6	+ 6	8.5	+3.21	−15.32	−10	47.14	−2.92	− 5	25	87
25	− 1	7	6.3	3.34	15.30	− 1	47.14	2.90	− 8	24	87
26	+ 5	8	4.5	3.48	15.29	+ 8	47.14	2.87	− 8	24	87
27	+10	9	3.1	3.62	15.28	+16	47.14	2.84	− 7	24	87
28	+13	9	1.7	3.76	15.27	+21	47.14	2.82	− 4	23	87
29	+14	9	0.3	3.89	15.26	+23	47.14	2.79	− 1	23	87
30	+13	+ 9	22.7	+4.03	−15.26	+21	47.14	−2.76	+ 3	23	86
31	+10	8	21.2	4.17	15.25	+16	47.13	2.73	+ 6	23	86
Febr. 1	+ 5	8	19.5	4.31	15.25	+ 8	47.13	2.70	+ 8	22	86
2	− 1	8	17.8	4.44	15.25	− 1	47.13	2.68	+ 8	22	86
3	− 6	8	16.0	4.58	15.25	−10	47.13	2.65	+ 7	22	86
4	−11	9	14.4	4.72	15.25	−18	47.13	2.62	+ 5	22	86
5	−14	+ 9	12.9	+4.86	−15.25	−23	47.13	−2.59	+ 2	21	86
6	−15	10	11.4	4.99	15.26	−25	47.13	2.56	− 2	21	85
7	−14	10	10.0	5.13	15.26	−23	47.13	2.53	− 5	21	85
8	−10	10	8.6	5.27	15.27	−17	47.12	2.51	− 8	21	85
9	− 5	10	7.2	5.41	15.28	− 8	47.12	2.48	−10	20	85
10	+ 1	+ 9	5.6	+5.55	−15.29	+ 2	47.12	−2.45	− 9	20	85

Reduktionsgrößen 1945

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1945	h	a	s		h m		h m		"
Febr. 10	9.3	0.1103	—0.597	0.6613	9 50.6	1.2894	20 46.1	0.8008n	—6.321
11	9.4	0.1130	0.589	0.6559	9 50.5	1.2887	20 42.0	0.8069n	6.411
12	9.4	0.1158	0.581	0.6505	9 50.3	1.2881	20 37.9	0.8128n	6.499
13	9.5	0.1185	0.574	0.6451	9 50.2	1.2874	20 33.8	0.8185n	6.584
14	9.6	0.1213	0.567	0.6397	9 50.0	1.2868	20 29.6	0.8240n	6.668
15	9.6	0.1240	0.559	0.6343	9 49.9	1.2861	20 25.5	0.8292n	6.749
16	9.7	0.1267	—0.552	0.6289	9 49.7	1.2855	20 21.3	0.8343n	—6.828
17	9.8	0.1295	0.545	0.6234	9 49.6	1.2849	20 17.1	0.8392n	6.905
18	9.8	0.1322	0.538	0.6180	9 49.4	1.2843	20 12.9	0.8439n	6.980
19	9.9	0.1349	0.531	0.6125	9 49.2	1.2837	20 8.7	0.8484n	7.053
20	10.0	0.1377	0.525	0.6071	9 49.0	1.2831	20 4.5	0.8527n	7.124
21	10.0	0.1404	0.518	0.6016	9 48.9	1.2825	20 0.3	0.8568n	7.192
22	10.1	0.1432	—0.511	0.5962	9 48.8	1.2819	19 56.1	0.8608n	—7.258
23	10.2	0.1459	0.504	0.5908	9 48.6	1.2814	19 51.9	0.8646n	7.322
24	10.2	0.1486	0.498	0.5854	9 48.4	1.2809	19 47.6	0.8682n	7.383
25	10.3	0.1514	0.492	0.5800	9 48.1	1.2803	19 43.4	0.8717n	7.443
26	10.4	0.1541	0.485	0.5746	9 47.9	1.2798	19 39.1	0.8751n	7.500
27	10.4	0.1568	0.479	0.5692	9 47.6	1.2793	19 34.9	0.8782n	7.554
28	10.5	0.1596	—0.473	0.5638	9 47.4	1.2789	19 30.6	0.8812n	—7.606
März 1	10.6	0.1623	0.467	0.5583	9 47.1	1.2784	19 26.3	0.8840n	7.656
2	10.6	0.1651	0.460	0.5529	9 46.8	1.2780	19 22.0	0.8867n	7.703
3	10.7	0.1678	0.454	0.5475	9 46.5	1.2775	19 17.7	0.8892n	7.748
4	10.8	0.1705	0.448	0.5421	9 46.1	1.2771	19 13.4	0.8916n	7.791
5	10.8	0.1733	0.443	0.5368	9 45.7	1.2767	19 9.1	0.8938n	7.831
6	10.9	0.1760	—0.437	0.5315	9 45.3	1.2764	19 4.8	0.8959n	—7.869
7	11.0	0.1788	0.431	0.5263	9 44.9	1.2761	19 0.5	0.8979n	7.905
8	11.0	0.1815	0.425	0.5210	9 44.4	1.2758	18 56.2	0.8997n	7.938
9	11.1	0.1842	0.419	0.5158	9 43.9	1.2755	18 51.9	0.9013n	7.968
10	11.2	0.1870	0.414	0.5105	9 43.3	1.2752	18 47.5	0.9029n	7.996
11	11.2	0.1897	0.408	0.5053	9 42.7	1.2749	18 43.2	0.9043n	8.022
12	11.3	0.1924	—0.402	0.5000	9 42.0	1.2747	18 38.9	0.9055n	—8.045
13	11.4	0.1952	0.397	0.4948	9 41.3	1.2745	18 34.6	0.9067n	8.066
14	11.4	0.1979	0.391	0.4895	9 40.6	1.2743	18 30.2	0.9077n	8.085
15	11.5	0.2007	0.386	0.4843	9 39.8	1.2741	18 25.9	0.9085n	8.101
16	11.5	0.2034	0.380	0.4791	9 39.0	1.2740	18 21.6	0.9092n	8.114
17	11.6	0.2061	0.375	0.4739	9 38.1	1.2739	18 17.2	0.9099n	8.126
18	11.7	0.2089	—0.369	0.4687	9 37.1	1.2738	18 12.9	0.9103n	—8.134
19	11.7	0.2116	0.363	0.4635	9 36.1	1.2738	18 8.5	0.9106n	8.140
20	11.8	0.2143	0.358	0.4584	9 35.0	1.2737	18 4.2	0.9108n	8.143
21	11.8	0.2171	0.352	0.4533	9 33.8	1.2737	17 59.9	0.9108n	8.144
22	11.9	0.2198	0.347	0.4481	9 32.6	1.2737	17 55.6	0.9108n	8.143
23	12.0	0.2226	—0.341	0.4430	9 31.3	1.2737	17 51.2	0.9106n	—8.140

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26' "	"	" in 0.01	in 0.001	
Febr. 10	+ 1	+ 9	5.6	+ 5.55	−15.29	+ 2	47.12	−2.45	− 9	20	85
11	+ 7	8	3.8	5.68	15.31	+11	47.12	2.43	− 7	20	85
12	+10	7	1.4	5.82	15.32	+17	47.12	2.40	− 3	20	85
13	+11	7	22.9	5.96	15.34	+18	47.12	2.37	+ 2	19	85
14	+ 8	8	20.8	6.10	15.35	+14	47.12	2.34	+ 6	19	84
15	+ 4	9	19.1	6.23	15.37	+ 7	47.11	2.32	+ 9	19	84
16	− 1	+ 9	17.6	+ 6.37	−15.39	− 2	47.11	−2.29	+ 9	19	84
17	− 6	8	16.0	6.51	15.41	−10	47.11	2.26	+ 7	18	84
18	− 9	7	14.2	6.65	15.44	−15	47.11	2.24	+ 4	18	84
19	− 9	6	11.7	6.78	15.46	−15	47.11	2.21	0	18	84
20	− 7	6	9.0	6.92	15.49	−11	47.11	2.19	− 4	18	84
21	− 2	7	6.6	7.06	15.52	− 3	47.11	2.16	− 7	17	84
22	+ 4	+ 8	4.8	+ 7.20	−15.55	+ 7	47.11	−2.14	− 8	17	84
23	+ 9	9	3.4	7.33	15.58	+15	47.10	2.12	− 7	17	83
24	+13	9	2.0	7.47	15.61	+21	47.10	2.09	− 5	17	83
25	+14	9	0.6	7.61	15.64	+23	47.10	2.07	− 2	17	83
26	+14	9	23.2	7.75	15.67	+22	47.10	2.05	+ 2	16	83
27	+11	9	21.7	7.88	15.71	+18	47.10	2.03	+ 5	16	83
28	+ 7	+ 8	20.1	+ 8.02	−15.75	+11	47.10	−2.00	+ 7	16	83
März 1	+ 1	8	18.4	8.16	15.78	+ 2	47.10	1.98	+ 8	16	83
2	− 4	8	16.7	8.30	15.82	− 7	47.10	1.96	+ 8	16	83
3	− 9	9	15.0	8.44	15.86	−15	47.09	1.94	+ 6	15	83
4	−13	9	13.4	8.57	15.90	−22	47.09	1.92	+ 3	15	83
5	−15	10	11.9	8.71	15.94	−25	47.09	1.90	0	15	83
6	−15	+11	10.5	+ 8.85	−15.98	−24	47.09	−1.89	− 4	15	83
7	−12	11	9.2	8.99	16.03	−20	47.09	1.87	− 7	15	82
8	− 8	11	7.9	9.12	16.07	−12	47.09	1.85	− 9	15	82
9	− 2	10	6.4	9.26	16.11	− 3	47.09	1.83	−10	14	82
10	+ 4	8	4.7	9.40	16.15	+ 7	47.09	1.82	− 8	14	82
11	+ 8	7	2.5	9.54	16.20	+13	47.08	1.80	− 4	14	82
12	+10	+ 7	23.9	+ 9.67	−16.24	+16	47.08	−1.79	0	14	82
13	+ 8	7	21.3	9.81	16.29	+14	47.08	1.78	+ 5	14	82
14	+ 5	9	19.5	9.95	16.34	+ 8	47.08	1.76	+ 8	14	82
15	0	9	17.9	10.09	16.38	− 1	47.08	1.75	+ 9	13	82
16	− 5	9	16.5	10.22	16.43	− 9	47.08	1.74	+ 8	13	82
17	− 9	8	14.9	10.36	16.48	−14	47.08	1.73	+ 5	13	82
18	−10	+ 6	12.6	+10.50	−16.53	−16	47.07	−1.72	+ 1	13	82
19	− 7	6	9.8	10.64	16.57	−12	47.07	1.71	− 3	13	82
20	− 3	7	7.1	10.78	16.62	− 5	47.07	1.70	− 6	13	82
21	+ 3	8	5.1	10.91	16.67	+ 5	47.07	1.69	− 8	12	82
22	+ 9	10	3.6	11.05	16.72	+14	47.07	1.68	− 8	12	82
23	+13	+10	2.3	+11.19	−16.76	+21	47.07	−1.68	− 6	12	82

Reduktionsgrößen 1945

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1945	h	a	s		h m		h m		"
März 23	12.0	0.2226	−0.341	0.4430	9 31.3	1.2737	17 51.2	0.9106n	−8.140
24	12.1	0.2253	0.336	0.4379	9 29.9	1.2738	17 46.9	0.9103n	8.134
25	12.1	0.2280	0.330	0.4328	9 28.4	1.2739	17 42.6	0.9098n	8.125
26	12.2	0.2308	0.325	0.4277	9 26.8	1.2740	17 38.3	0.9092n	8.114
27	12.3	0.2335	0.319	0.4226	9 25.2	1.2742	17 34.0	0.9085n	8.101
28	12.3	0.2362	0.314	0.4175	9 23.5	1.2743	17 29.7	0.9077n	8.085
29	12.4	0.2390	−0.308	0.4124	9 21.7	1.2745	17 25.4	0.9067n	−8.066
30	12.5	0.2417	0.302	0.4074	9 19.7	1.2747	17 21.1	0.9056n	8.046
31	12.5	0.2445	0.297	0.4024	9 17.7	1.2749	17 16.8	0.9043n	8.023
April 1	12.6	0.2472	0.291	0.3973	9 15.5	1.2752	17 12.5	0.9029n	7.997
2	12.7	0.2499	0.285	0.3923	9 13.3	1.2754	17 8.3	0.9014n	7.969
3	12.7	0.2527	0.279	0.3873	9 10.9	1.2757	17 4.0	0.8998n	7.939
4	12.8	0.2554	−0.273	0.3824	9 8.4	1.2760	16 59.7	0.8981n	−7.908
5	12.9	0.2582	0.268	0.3775	9 5.8	1.2763	16 55.5	0.8961n	7.872
6	12.9	0.2609	0.262	0.3726	9 3.1	1.2767	16 51.3	0.8940n	7.835
7	13.0	0.2636	0.256	0.3677	9 0.3	1.2771	16 47.0	0.8918n	7.795
8	13.1	0.2664	0.250	0.3629	8 57.4	1.2775	16 42.8	0.8895n	7.754
9	13.1	0.2691	0.244	0.3581	8 54.3	1.2779	16 38.6	0.8871n	7.711
10	13.2	0.2718	−0.238	0.3534	8 51.1	1.2783	16 34.4	0.8845n	−7.664
11	13.3	0.2746	0.232	0.3488	8 47.8	1.2788	16 30.2	0.8817n	7.616
12	13.3	0.2773	0.225	0.3442	8 44.4	1.2792	16 26.1	0.8788n	7.565
13	13.4	0.2801	0.219	0.3397	8 40.8	1.2797	16 21.9	0.8758n	7.512
14	13.5	0.2828	0.212	0.3353	8 37.0	1.2802	16 17.7	0.8726n	7.458
15	13.5	0.2855	0.206	0.3309	8 33.1	1.2807	16 13.6	0.8693n	7.401
16	13.6	0.2883	−0.200	0.3265	8 29.0	1.2812	16 9.5	0.8658n	−7.342
17	13.7	0.2910	0.193	0.3223	8 24.9	1.2818	16 5.4	0.8622n	7.281
18	13.7	0.2937	0.186	0.3182	8 20.6	1.2823	16 1.3	0.8584n	7.217
19	13.8	0.2965	0.180	0.3142	8 16.1	1.2829	15 57.2	0.8544n	7.152
20	13.8	0.2992	0.173	0.3103	8 11.5	1.2834	15 53.1	0.8503n	7.084
21	13.9	0.3020	0.166	0.3066	8 6.7	1.2840	15 49.0	0.8460n	7.015
22	14.0	0.3047	−0.159	0.3030	8 1.8	1.2846	15 45.0	0.8415n	−6.943
23	14.0	0.3074	0.152	0.2997	7 56.7	1.2852	15 40.9	0.8369n	6.869
24	14.1	0.3102	0.145	0.2966	7 51.5	1.2858	15 36.9	0.8321n	6.794
25	14.2	0.3129	0.137	0.2936	7 46.2	1.2864	15 32.9	0.8272n	6.717
26	14.2	0.3156	0.130	0.2908	7 40.7	1.2870	15 28.9	0.8220n	6.638
27	14.3	0.3184	0.123	0.2883	7 35.1	1.2876	15 24.9	0.8167n	6.557
28	14.4	0.3211	−0.115	0.2861	7 29.4	1.2882	15 21.0	0.8112n	−6.474
29	14.4	0.3239	0.108	0.2841	7 23.6	1.2889	15 17.0	0.8054n	6.389
30	14.5	0.3266	0.100	0.2823	7 17.6	1.2895	15 13.1	0.7995n	6.303
Mai 1	14.6	0.3293	0.092	0.2808	7 11.5	1.2901	15 9.1	0.7934n	6.215
2	14.6	0.3321	0.085	0.2796	7 5.2	1.2908	15 5.2	0.7871n	6.125
3	14.7	0.3348	−0.077	0.2787	6 58.9	1.2914	15 1.3	0.7805n	−6.033

Tag	0h Welt-Zeit										
	f′	g′	G′	Allgemeine Präzession seit 1945.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
1945	in 0.001 s	in 0.01″				in 0.01″	23° 26′		in 0.01″	in 0.001	
März 23	+13	+10	h 2.3	″ +11.19	″ −16.76	+21	″ 47.07	″ −1.68	− 6	12	82
24	+15	10	1.0	11.33	16.81	+25	47.07	1.67	− 3	12	82
25	+15	10	23.6	11.46	16.86	+24	47.07	1.66	+ 1	12	82
26	+12	9	22.1	11.60	16.91	+20	47.06	1.66	+ 4	12	82
27	+ 8	9	20.6	11.74	16.95	+14	47.06	1.65	+ 7	12	82
28	+ 3	8	19.0	11.88	17.00	+ 5	47.06	1.65	+ 8	11	82
29	− 2	+ 8	17.3	+12.01	−17.04	− 4	47.06	−1.65	+ 8	11	82
30	− 7	8	15.6	12.15	17.09	−12	47.06	1.64	+ 7	11	82
31	−12	9	14.0	12.29	17.13	−19	47.06	1.64	+ 4	11	82
April 1	−14	9	12.4	12.43	17.18	−23	47.06	1.64	+ 1	11	82
2	−15	10	10.9	12.56	17.22	−24	47.06	1.64	− 3	11	82
3	−13	10	9.6	12.70	17.27	−21	47.05	1.64	− 6	11	82
4	− 9	+10	8.3	+12.84	−17.31	−15	47.05	−1.64	− 9	11	82
5	− 4	10	7.0	12.98	17.35	− 6	47.05	1.64	−10	10	82
6	+ 2	9	5.5	13.11	17.39	+ 3	47.05	1.65	− 9	10	83
7	+ 6	7	3.6	13.25	17.43	+10	47.05	1.65	− 6	10	83
8	+ 9	6	0.9	13.39	17.47	+15	47.05	1.65	− 1	10	83
9	+ 8	6	22.0	13.53	17.51	+14	47.05	1.65	+ 3	10	83
10	+ 6	+ 8	19.8	+13.67	−17.55	+ 9	47.05	−1.66	+ 7	10	83
11	+ 1	9	18.2	13.80	17.58	+ 1	47.04	1.66	+ 9	10	83
12	− 5	10	16.7	13.94	17.62	− 8	47.04	1.67	+ 9	10	83
13	− 9	9	15.2	14.08	17.65	−15	47.04	1.67	+ 7	10	83
14	−11	7	13.4	14.22	17.68	−17	47.04	1.68	+ 3	9	83
15	− 9	6	10.8	14.35	17.72	−15	47.04	1.68	− 2	9	83
16	− 5	+ 7	8.1	+14.49	−17.75	− 9	47.04	−1.69	− 6	9	83
17	+ 1	8	5.8	14.63	17.78	+ 1	47.04	1.69	− 8	9	84
18	+ 7	9	4.0	14.77	17.81	+12	47.04	1.70	− 8	9	84
19	+12	10	2.6	14.90	17.84	+20	47.03	1.71	− 7	9	84
20	+16	11	1.2	15.04	17.86	+25	47.03	1.72	− 3	9	84
21	+16	11	0.0	15.18	17.89	+27	47.03	1.72	0	9	84
22	+14	+10	22.6	+15.32	−17.91	+23	47.03	−1.73	+ 4	9	84
23	+10	9	21.1	15.45	17.93	+17	47.03	1.74	+ 6	9	84
24	+ 5	9	19.6	15.59	17.95	+ 9	47.03	1.75	+ 8	9	84
25	0	8	17.9	15.73	17.97	0	47.03	1.76	+ 8	9	84
26	− 6	8	16.2	15.87	17.99	− 9	47.02	1.77	+ 7	9	85
27	−10	8	14.5	16.00	18.01	−16	47.02	1.78	+ 5	9	85
28	−13	+ 9	12.7	+16.14	−18.02	−21	47.02	−1.79	+ 2	9	85
29	−14	9	11.3	16.28	18.04	−22	47.02	1.80	− 2	9	85
30	−12	10	9.9	16.42	18.05	−20	47.02	1.81	− 5	8	85
Mai 1	−10	10	8.6	16.56	18.06	−16	47.02	1.82	− 8	8	85
2	− 5	10	7.3	16.69	18.07	− 8	47.02	1.83	− 9	8	85
3	+ 1	+ 9	5.9	+16.83	−18.08	+ 1	47.02	−1.84	− 9	8	85

Reduktionsgrößen 1945

Tag	0h Welt-Zeit								
	Stern-zeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1945	h	s	s		h m		h m		″
Mai 3	14.7	0.3348	−0.077	0.2787	6 58.9	1.2914	15 1.3	0.7805n	−6.033
4	14.8	0.3375	0.069	0.2782	6 52.5	1.2920	14 57.4	0.7738n	5.940
5	14.8	0.3403	0.060	0.2779	6 46.0	1.2927	14 53.6	0.7667n	5.844
6	14.9	0.3430	0.052	0.2779	6 39.5	1.2933	14 49.7	0.7595n	5.748
7	15.0	0.3458	0.044	0.2782	6 32.9	1.2939	14 45.8	0.7520n	5.649
8	15.0	0.3485	0.036	0.2789	6 26.3	1.2945	14 42.0	0.7443n	5.550
9	15.1	0.3512	−0.027	0.2799	6 19.6	1.2952	14 38.2	0.7362n	−5.448
10	15.2	0.3540	0.019	0.2813	6 12.9	1.2958	14 34.4	0.7279n	5.345
11	15.2	0.3567	0.010	0.2829	6 6.1	1.2964	14 30.6	0.7194n	5.241
12	15.3	0.3595	−0.002	0.2849	5 59.3	1.2970	14 26.8	0.7105n	5.135
13	15.4	0.3622	+0.007	0.2873	5 52.6	1.2976	14 23.0	0.7014n	5.028
14	15.4	0.3649	0.016	0.2900	5 45.9	1.2982	14 19.2	0.6919n	4.919
15	15.5	0.3677	+0.025	0.2930	5 39.2	1.2988	14 15.5	0.6821n	−4.809
16	15.6	0.3704	0.034	0.2963	5 32.5	1.2994	14 11.7	0.6719n	4.698
17	15.6	0.3731	0.043	0.2999	5 25.8	1.2999	14 8.0	0.6613n	4.585
18	15.7	0.3759	0.052	0.3040	5 19.2	1.3005	14 4.3	0.6504n	4.471
19	15.8	0.3786	0.062	0.3083	5 12.7	1.3011	14 0.6	0.6392n	4.357
20	15.8	0.3814	0.071	0.3129	5 6.2	1.3016	13 56.9	0.6274n	4.240
21	15.9	0.3841	+0.080	0.3177	4 59.8	1.3021	13 53.2	0.6152n	−4.123
22	16.0	0.3868	0.090	0.3226	4 53.5	1.3026	13 49.5	0.6026n	4.005
23	16.0	0.3896	0.099	0.3278	4 47.3	1.3032	13 45.9	0.5894n	3.885
24	16.1	0.3923	0.109	0.3331	4 41.1	1.3037	13 42.2	0.5758n	3.765
25	16.1	0.3950	0.119	0.3387	4 35.0	1.3041	13 38.6	0.5615n	3.643
26	16.2	0.3978	0.128	0.3445	4 29.1	1.3046	13 34.9	0.5465n	3.520
27	16.3	0.4005	+0.138	0.3505	4 23.3	1.3051	13 31.3	0.5310n	−3.396
28	16.3	0.4033	0.148	0.3566	4 17.6	1.3055	13 27.7	0.5148n	3.272
29	16.4	0.4060	0.158	0.3628	4 12.0	1.3059	13 24.1	0.4978n	3.146
30	16.5	0.4087	0.168	0.3692	4 6.5	1.3063	13 20.5	0.4800n	3.020
31	16.5	0.4115	0.178	0.3757	4 1.1	1.3067	13 16.9	0.4613n	2.893
Juni 1	16.6	0.4142	0.188	0.3823	3 55.8	1.3071	13 13.3	0.4419n	2.766
2	16.7	0.4169	+0.198	0.3890	3 50.6	1.3075	13 9.7	0.4213n	−2.638
3	16.7	0.4197	0.208	0.3957	3 45.5	1.3078	13 6.2	0.3993n	2.508
4	16.8	0.4224	0.219	0.4025	3 40.6	1.3082	13 2.6	0.3762n	2.378
5	16.9	0.4252	0.229	0.4093	3 35.7	1.3085	12 59.0	0.3518n	2.248
6	16.9	0.4279	0.239	0.4161	3 30.9	1.3088	12 55.5	0.3257n	2.117
7	17.0	0.4306	0.250	0.4230	3 26.2	1.3091	12 51.9	0.2978n	1.985
8	17.1	0.4334	+0.260	0.4298	3 21.6	1.3093	12 48.4	0.2679n	−1.853
9	17.1	0.4361	0.271	0.4367	3 17.2	1.3096	12 44.9	0.2358n	1.721
10	17.2	0.4389	0.281	0.4435	3 12.9	1.3098	12 41.3	0.2009n	1.588
11	17.3	0.4416	0.292	0.4504	3 8.6	1.3100	12 37.8	0.1626n	1.454
12	17.3	0.4443	0.302	0.4573	3 4.5	1.3102	12 34.3	0.1206n	1.320
13	17.4	0.4471	+0.313	0.4643	3 0.4	1.3104	12 30.8	0.0737n	−1.185

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945	in 0.s001	in 0."01	h	"	"	in 0."01	23°26' "	"	in 0."01	in 0.001	
Mai 3	+ 1	+ 9	5.9	+16.83	−18.08	+ 1	47.02	−1.84	− 9	8	85
4	+ 5	7	4.3	16.97	18.09	+ 8	47.01	1.85	− 7	8	85
5	+ 8	6	1.9	17.11	18.09	+13	47.01	1.86	− 3	8	86
6	+ 8	6	23.0	17.24	18.09	+14	47.01	1.87	+ 1	8	86
7	+ 6	7	20.3	17.38	18.10	+10	47.01	1.88	+ 6	8	86
8	+ 2	9	18.5	17.52	18.10	+ 3	47.01	1.89	+ 9	8	86
9	− 4	+10	17.0	+17.66	−18.10	− 7	47.01	−1.90	+ 9	8	86
10	− 9	10	15.5	17.79	18.10	−15	47.01	1.91	+ 8	8	86
11	−12	9	13.9	17.93	18.10	−19	47.01	1.92	+ 4	8	86
12	−12	8	11.9	18.07	18.09	−19	47.00	1.93	0	8	86
13	− 8	7	9.3	18.21	18.09	−14	47.00	1.94	− 5	9	87
14	− 3	8	6.9	18.34	18.08	− 4	47.00	1.95	− 8	9	87
15	+ 4	+ 9	4.8	+18.48	−18.07	+ 7	47.00	−1.96	− 9	9	87
16	+10	10	3.2	18.62	18.06	+17	47.00	1.96	− 8	9	87
17	+15	11	1.8	18.76	18.05	+24	47.00	1.97	− 5	9	87
18	+17	11	0.4	18.90	18.04	+27	47.00	1.98	− 1	9	87
19	+16	11	23.1	19.03	18.02	+26	47.00	1.99	+ 3	9	87
20	+13	10	21.6	19.17	18.01	+21	46.99	2.00	+ 6	9	87
21	+ 8	+ 9	20.1	+19.31	−17.99	+12	46.99	−2.01	+ 8	9	87
22	+ 2	8	18.5	19.45	17.97	+ 3	46.99	2.01	+ 8	9	88
23	− 4	8	16.8	19.58	17.95	− 6	46.99	2.02	+ 8	9	88
24	− 8	8	15.0	19.72	17.93	−14	46.99	2.03	+ 5	9	88
25	−12	8	13.2	19.86	17.91	−19	46.99	2.03	+ 3	10	88
26	−13	9	11.6	20.00	17.89	−21	46.99	2.04	− 1	10	88
27	−12	+ 9	10.1	+20.13	−17.87	−20	46.99	−2.05	− 4	10	88
28	−10	10	8.7	20.27	17.84	−16	46.98	2.05	− 7	10	88
29	− 6	10	7.5	20.41	17.82	− 9	46.98	2.06	− 9	10	88
30	0	9	6.1	20.55	17.79	− 1	46.98	2.06	− 9	10	88
31	+ 5	8	4.6	20.68	17.77	+ 7	46.98	2.06	− 7	10	88
Juni 1	+ 8	7	2.6	20.82	17.74	+13	46.98	2.07	− 4	11	88
2	+ 9	+ 6	0.0	+20.96	−17.71	+15	46.98	−2.07	0	11	89
3	+ 8	7	21.2	21.10	17.68	+12	46.98	2.07	+ 4	11	89
4	+ 3	8	19.1	21.23	17.65	+ 6	46.97	2.07	+ 8	11	89
5	− 2	9	17.5	21.37	17.62	− 3	46.97	2.07	+ 9	11	89
6	− 8	10	16.0	21.51	17.59	−12	46.97	2.07	+ 8	11	89
7	−11	9	14.5	21.65	17.56	−19	46.97	2.07	+ 6	12	89
8	−13	+ 8	12.6	+21.79	−17.52	−21	46.97	−2.07	+ 1	12	89
9	−11	8	10.3	21.92	17.49	−17	46.97	2.07	− 3	12	89
10	− 5	8	7.9	22.06	17.46	− 9	46.97	2.07	− 7	12	89
11	+ 1	8	5.8	22.20	17.42	+ 1	46.97	2.07	− 8	12	89
12	+ 7	9	4.0	22.34	17.39	+12	46.96	2.07	− 8	13	89
13	+13	+10	2.4	+22.47	−17.35	+21	46.96	−2.06	− 6	13	89

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1945	h	s	s		h m		h m		"
Juni 13	17.4	0.4471	+0.313	0.4643	3 0.4	1.3104	12 30.8	0.0737*n*	−1.185
14	17.5	0.4498	0.323	0.4712	2 56.4	1.3106	12 27.2	0.0216*n*	1.051
15	17.5	0.4525	0.334	0.4780	2 52.5	1.3107	12 23.7	9.9619*n*	0.916
16	17.6	0.4553	0.345	0.4849	2 48.7	1.3108	12 20.2	9.8932*n*	0.782
17	17.7	0.4580	0.355	0.4918	2 44.9	1.3109	12 16.7	9.8102*n*	0.646
18	17.7	0.4608	0.366	0.4985	2 41.2	1.3110	12 13.2	9.7084*n*	0.511
19	17.8	0.4635	+0.377	0.5052	2 37.6	1.3111	12 9.7	9.5752*n*	−0.376
20	17.9	0.4662	0.387	0.5119	2 34.1	1.3111	12 6.2	9.3802*n*	0.240
21	17.9	0.4690	0.398	0.5185	2 30.7	1.3111	12 2.7	9.0212*n*	−0.105
22	18.0	0.4717	0.409	0.5251	2 27.3	1.3111	11 59.2	8.4914	+0.031
23	18.1	0.4744	0.419	0.5317	2 24.0	1.3111	11 55.7	9.2227	0.167
24	18.1	0.4772	0.430	0.5381	2 20.8	1.3111	11 52.2	9.4800	0.302
25	18.2	0.4799	+0.441	0.5445	2 17.6	1.3110	11 48.7	9.6415	+0.438
26	18.3	0.4827	0.452	0.5508	2 14.5	1.3109	11 45.2	9.7582	0.573
27	18.3	0.4854	0.462	0.5571	2 11.4	1.3109	11 41.7	9.8506	0.709
28	18.4	0.4881	0.473	0.5633	2 8.4	1.3108	11 38.2	9.9258	0.843
29	18.4	0.4909	0.483	0.5694	2 5.5	1.3106	11 34.7	9.9903	0.978
30	18.5	0.4936	0.494	0.5755	2 2.6	1.3105	11 31.2	0.0465	1.113
Juli 1	18.6	0.4963	+0.504	0.5816	1 59.7	1.3103	11 27.6	0.0959	+1.247
2	18.6	0.4991	0.515	0.5876	1 56.9	1.3101	11 24.1	0.1399	1.380
3	18.7	0.5018	0.526	0.5936	1 54.2	1.3099	11 20.6	0.1798	1.513
4	18.8	0.5046	0.536	0.5994	1 51.5	1.3097	11 17.1	0.2164	1.646
5	18.8	0.5073	0.547	0.6052	1 48.9	1.3095	11 13.6	0.2502	1.779
6	18.9	0.5100	0.557	0.6109	1 46.3	1.3092	11 10.1	0.2813	1.911
7	19.0	0.5128	+0.567	0.6165	1 43.8	1.3089	11 6.5	0.3101	+2.042
8	19.0	0.5155	0.578	0.6220	1 41.3	1.3087	11 3.0	0.3371	2.173
9	19.1	0.5183	0.588	0.6275	1 38.9	1.3084	10 59.4	0.3623	2.303
10	19.2	0.5210	0.598	0.6328	1 36.5	1.3080	10 55.9	0.3861	2.433
11	19.2	0.5237	0.608	0.6381	1 34.2	1.3077	10 52.3	0.4086	2.562
12	19.3	0.5265	0.618	0.6433	1 31.9	1.3073	10 48.8	0.4299	2.691
13	19.4	0.5292	+0.629	0.6485	1 29.6	1.3070	10 45.2	0.4499	+2.818
14	19.4	0.5319	0.639	0.6537	1 27.3	1.3066	10 41.7	0.4691	2.945
15	19.5	0.5347	0.649	0.6588	1 25.1	1.3062	10 38.1	0.4873	3.071
16	19.6	0.5374	0.659	0.6638	1 22.9	1.3058	10 34.5	0.5046	3.196
17	19.6	0.5402	0.668	0.6688	1 20.8	1.3053	10 30.9	0.5211	3.320
18	19.7	0.5429	0.678	0.6736	1 18.7	1.3049	10 27.3	0.5369	3.443
19	19.8	0.5456	+0.688	0.6784	1 16.7	1.3044	10 23.7	0.5522	+3.566
20	19.8	0.5484	0.698	0.6831	1 14.7	1.3040	10 20.1	0.5668	3.688
21	19.9	0.5511	0.707	0.6877	1 12.7	1.3035	10 16.5	0.5807	3.808
22	20.0	0.5538	0.717	0.6923	1 10.8	1.3030	10 12.8	0.5941	3.927
23	20.0	0.5566	0.726	0.6969	1 8.9	1.3025	10 9.2	0.6070	4.046
24	20.1	0.5593	+0.736	0.7014	1 7.0	1.3019	10 5.5	0.6194	+4.163

Tag		0^h Welt-Zeit										
		f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945		in 0.ˢ001	in 0.″01	ʰ	″	″	in 0.″01	23° 26′ ″	″	in 0.″01	in 0.001	
Juni	13	+13	+10	2.4	+22.47	−17.35	+21	46.96	−2.06	− 6	13	89
	14	+16	11	1.0	22.61	17.32	+26	46.96	2.06	− 3	13	89
	15	+16	11	23.5	22.75	17.28	+26	46.96	2.06	+ 1	13	89
	16	+14	10	22.1	22.89	17.24	+23	46.96	2.05	+ 5	13	89
	17	+ 9	9	20.6	23.02	17.21	+15	46.96	2.05	+ 7	14	89
	18	+ 4	9	19.1	23.16	17.17	+ 6	46.96	2.04	+ 9	14	89
	19	− 2	+ 8	17.4	+23.30	−17.13	− 3	46.96	−2.03	+ 8	14	89
	20	− 7	8	15.7	23.44	17.10	−12	46.95	2.03	+ 7	14	89
	21	−11	8	13.8	23.57	17.06	−18	46.95	2.02	+ 4	14	89
	22	−13	8	12.0	23.71	17.02	−21	46.95	2.01	0	15	89
	23	−13	9	10.5	23.85	16.98	−21	46.95	2.00	− 3	15	89
	24	−11	9	9.1	23.99	16.95	−17	46.95	1.99	− 7	15	89
	25	− 6	+ 9	7.7	+24.12	−16.91	−10	46.95	−1.98	− 9	15	89
	26	− 1	9	6.3	24.26	16.87	− 2	46.95	1.97	− 9	16	89
	27	+ 4	9	4.9	24.40	16.84	+ 6	46.95	1.96	− 8	16	89
	28	+ 8	7	3.1	24.54	16.80	+13	46.94	1.95	− 5	16	89
	29	+10	7	0.7	24.68	16.76	+16	46.94	1.93	− 1	16	89
	30	+ 9	7	22.2	24.81	16.73	+15	46.94	1.92	+ 3	16	89
Juli	1	+ 6	+ 8	19.9	+24.95	−16.69	+ 9	46.94	−1.90	+ 7	17	89
	2	0	9	18.1	25.09	16.66	+ 1	46.94	1.89	+ 9	17	89
	3	− 5	9	16.6	25.23	16.62	− 9	46.94	1.88	+ 9	17	89
	4	−10	9	15.0	25.36	16.59	−16	46.94	1.86	+ 7	17	89
	5	−12	8	13.2	25.50	16.56	−20	46.94	1.84	+ 3	18	89
	6	−12	8	11.2	25.64	16.52	−19	46.93	1.83	− 2	18	89
	7	− 8	+ 8	8.9	+25.78	−16.49	−13	46.93	−1.81	− 6	18	89
	8	− 2	8	6.7	25.91	16.46	− 3	46.93	1.79	− 8	18	89
	9	+ 4	9	4.7	26.05	16.43	+ 7	46.93	1.77	− 8	19	89
	10	+10	10	3.1	26.19	16.40	+17	46.93	1.76	− 7	19	89
	11	+14	10	1.5	26.33	16.37	+23	46.93	1.74	− 4	19	89
	12	+16	10	0.0	26.46	16.34	+26	46.93	1.72	0	19	89
	13	+14	+10	22.6	+26.60	−16.31	+23	46.92	−1.70	+ 4	19	88
	14	+11	10	21.1	26.74	16.29	+18	46.92	1.68	+ 7	20	88
	15	+ 6	9	19.6	26.88	16.26	+ 9	46.92	1.65	+ 8	20	88
	16	0	8	17.9	27.02	16.24	− 1	46.92	1.63	+ 8	20	88
	17	− 6	8	16.2	27.15	16.21	−10	46.92	1.61	+ 7	20	88
	18	−10	8	14.4	27.29	16.19	−17	46.92	1.59	+ 5	21	88
	19	−13	+ 9	12.6	+27.43	−16.17	−21	46.92	−1.57	+ 1	21	88
	20	−14	9	11.0	27.57	16.15	−22	46.92	1.54	− 2	21	88
	21	−12	10	9.5	27.70	16.13	−19	46.91	1.52	− 6	21	88
	22	− 8	10	8.1	27.84	16.11	−13	46.91	1.50	− 8	21	88
	23	− 3	10	6.8	27.98	16.09	− 5	46.91	1.47	−10	22	88
	24	+ 2	+ 9	5.4	+28.12	−16.07	+ 4	46.91	−1.45	− 9	22	87

Reduktionsgrößen 1945

Tag	0^h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1945	h	s	s		h m		h m		"
Juli 24	20.1	0.5593	+0.736	0.7014	1 7.0	1.3019	10 5.5	0.6194	+4.163
25	20.2	0.5621	0.745	0.7058	1 5.1	1.3014	10 1.9	0.6313	4.279
26	20.2	0.5648	0.754	0.7101	1 3.3	1.3009	9 58.2	0.6429	4.394
27	20.3	0.5675	0.763	0.7144	1 1.5	1.3003	9 54.5	0.6540	4.508
28	20.4	0.5703	0.773	0.7186	0 59.7	1.2997	9 50.8	0.6646	4.620
29	20.4	0.5730	0.782	0.7228	0 58.0	1.2992	9 47.1	0.6750	4.731
30	20.5	0.5757	+0.791	0.7269	0 56.3	1.2986	9 43.4	0.6849	+4.841
31	20.6	0.5785	0.799	0.7310	0 54.6	1.2981	9 39.7	0.6946	4.950
Aug. 1	20.6	0.5812	0.808	0.7350	0 53.0	1.2975	9 36.0	0.7040	5.058
2	20.7	0.5840	0.817	0.7389	0 51.4	1.2968	9 32.2	0.7129	5.163
3	20.7	0.5867	0.825	0.7428	0 49.8	1.2962	9 28.5	0.7216	5.268
4	20.8	0.5894	0.834	0.7466	0 48.2	1.2956	9 24.7	0.7301	5.371
5	20.9	0.5922	+0.842	0.7504	0 46.7	1.2950	9 20.9	0.7382	+5.473
6	20.9	0.5949	0.851	0.7541	0 45.2	1.2944	9 17.1	0.7461	5.573
7	21.0	0.5976	0.859	0.7577	0 43.7	1.2938	9 13.3	0.7537	5.671
8	21.1	0.6004	0.867	0.7613	0 42.3	1.2932	9 9.5	0.7610	5.768
9	21.1	0.6031	0.876	0.7648	0 40.9	1.2925	9 5.7	0.7681	5.863
10	21.2	0.6059	0.884	0.7683	0 39.5	1.2919	9 1.8	0.7751	5.958
11	21.3	0.6086	+0.891	0.7717	0 38.1	1.2913	8 58.0	0.7818	+6.050
12	21.3	0.6113	0.899	0.7751	0 36.8	1.2906	8 54.1	0.7882	6.141
13	21.4	0.6141	0.907	0.7785	0 35.5	1.2900	8 50.2	0.7944	6.229
14	21.5	0.6168	0.915	0.7818	0 34.2	1.2894	8 46.3	0.8004	6.316
15	21.5	0.6196	0.922	0.7850	0 32.9	1.2888	8 42.4	0.8062	6.401
16	21.6	0.6223	0.930	0.7882	0 31.7	1.2882	8 38.5	0.8119	6.485
17	21.7	0.6250	+0.937	0.7914	0 30.5	1.2875	8 34.6	0.8173	+6.566
18	21.7	0.6278	0.945	0.7945	0 29.4	1.2869	8 30.7	0.8226	6.646
19	21.8	0.6305	0.952	0.7976	0 28.2	1.2863	8 26.7	0.8276	6.724
20	21.9	0.6332	0.960	0.8006	0 27.1	1.2857	8 22.8	0.8326	6.801
21	21.9	0.6360	0.967	0.8036	0 26.0	1.2851	8 18.8	0.8373	6.875
22	22.0	0.6387	0.974	0.8065	0 24.9	1.2846	8 14.8	0.8418	6.947
23	22.1	0.6415	+0.981	0.8094	0 23.9	1.2840	8 10.8	0.8462	+7.018
24	22.1	0.6442	0.988	0.8123	0 22.9	1.2834	8 6.8	0.8505	7.087
25	22.2	0.6469	0.994	0.8151	0 21.9	1.2828	8 2.7	0.8545	7.154
26	22.3	0.6497	1.001	0.8179	0 20.9	1.2823	7 58.7	0.8584	7.218
27	22.3	0.6524	1.008	0.8206	0 20.0	1.2818	7 54.6	0.8622	7.281
28	22.4	0.6551	1.015	0.8233	0 19.1	1.2812	7 50.5	0.8658	7.341
29	22.5	0.6579	+1.021	0.8259	0 18.2	1.2807	7 46.5	0.8692	+7.399
30	22.5	0.6606	1.028	0.8285	0 17.3	1.2802	7 42.4	0.8725	7.456
31	22.6	0.6634	1.034	0.8311	0 16.5	1.2797	7 38.3	0.8756	7.510
Sept. 1	22.7	0.6661	1.041	0.8337	0 15.7	1.2793	7 34.2	0.8786	7.562
2	22.7	0.6688	1.047	0.8362	0 14.9	1.2788	7 30.1	0.8815	7.612
3	22.8	0.6716	+1.053	0.8387	0 14.1	1.2784	7 26.0	0.8842	+7.660

Tag		0ʰ Welt-Zeit										
		f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945		s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26' "	"	" in 0.01	in 0.001	
Juli	24	+ 2	+ 9	5.4	+28.12	−16.07	+ 4	46.91	−1.45	− 9	22	87
	25	+ 7	8	3.9	28.25	16.06	+12	46.91	1.42	− 6	22	87
	26	+10	7	1.5	28.39	16.05	+16	46.91	1.40	− 3	22	87
	27	+10	7	22.9	28.53	16.03	+17	46.91	1.37	+ 2	23	87
	28	+ 8	8	20.7	28.67	16.02	+12	46.91	1.35	+ 6	23	87
	29	+ 3	9	18.8	28.80	16.01	+ 5	46.90	1.32	+ 9	23	87
	30	− 3	+ 9	17.2	+28.94	−16.00	− 5	46.90	−1.30	+ 9	23	87
	31	− 8	9	15.7	29.08	16.00	−13	46.90	1.27	+ 7	23	87
Aug.	1	−11	8	14.0	29.22	15.99	−18	46.90	1.25	+ 4	24	87
	2	−11	7	11.8	29.35	15.98	−19	46.90	1.22	0	24	86
	3	− 9	7	9.4	29.49	15.98	−14	46.90	1.19	− 5	24	86
	4	− 4	8	7.2	29.63	15.98	− 6	46.90	1.17	− 8	24	86
	5	+ 3	+ 9	5.2	+29.77	−15.98	+ 4	46.90	−1.14	− 9	25	86
	6	+ 9	9	3.6	29.91	15.98	+14	46.89	1.11	− 8	25	86
	7	+13	10	2.1	30.04	15.98	+21	46.89	1.09	− 5	25	86
	8	+15	10	0.5	30.18	15.98	+25	46.89	1.06	− 1	25	86
	9	+15	10	23.0	30.32	15.99	+24	46.89	1.03	+ 3	25	86
	10	+12	10	21.5	30.46	15.99	+19	46.89	1.01	+ 6	26	85
	11	+ 7	+ 9	19.9	+30.59	−16.00	+11	46.89	−0.98	+ 8	26	85
	12	+ 1	9	18.4	30.73	16.01	+ 2	46.89	0.95	+ 9	26	85
	13	− 4	8	16.7	30.87	16.02	− 7	46.89	0.93	+ 8	26	85
	14	− 9	8	14.9	31.01	16.03	−15	46.88	0.90	+ 6	26	85
	15	−13	9	13.3	31.14	16.04	−21	46.88	0.87	+ 3	27	85
	16	−14	9	11.5	31.28	16.06	−23	46.88	0.85	− 1	27	85
	17	−13	+10	10.1	+31.42	−16.07	−22	46.88	−0.82	− 5	27	85
	18	−10	10	8.8	31.56	16.09	−17	46.88	0.80	− 8	27	85
	19	− 6	10	7.4	31.69	16.11	− 9	46.88	0.77	−10	27	84
	20	0	9	6.0	31.83	16.13	0	46.88	0.75	− 9	28	84
	21	+ 5	8	4.4	31.97	16.15	+ 8	46.87	0.72	− 8	28	84
	22	+ 9	7	2.4	32.11	16.17	+14	46.87	0.70	− 4	28	84
	23	+10	+ 7	23.8	+32.24	−16.19	+17	46.87	−0.67	0	28	84
	24	+ 9	7	21.3	32.38	16.22	+14	46.87	0.65	+ 5	28	84
	25	+ 5	8	19.4	32.52	16.24	+ 7	46.87	0.62	+ 8	28	84
	26	− 1	9	17.8	32.66	16.27	− 1	46.87	0.60	+ 9	29	84
	27	− 6	9	16.3	32.80	16.30	−10	46.87	0.58	+ 8	29	84
	28	−10	8	14.6	32.93	16.33	−16	46.87	0.55	+ 5	29	83
	29	−11	+ 7	12.5	+33.07	−16.36	−18	46.86	−0.53	+ 1	29	83
	30	− 9	7	10.0	33.21	16.39	−15	46.86	0.51	− 3	29	83
	31	− 5	7	7.6	33.35	16.42	− 8	46.86	0.49	− 7	30	83
Sept.	1	+ 2	8	5.5	33.48	16.46	+ 3	46.86	0.47	− 8	30	83
	2	+ 8	9	3.9	33.62	16.49	+13	46.86	0.45	− 8	30	83
	3	+12	+10	2.4	+33.76	−16.52	+20	46.86	−0.43	− 6	30	83

Tag	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
	0h Welt-Zeit								
1945	h	a	s		h m		h m		"
Sept. 3	22.8	0.6716	+1.053	0.8387	0 14.1	1.2784	7 26.0	0.8842	+7.660
4	22.8	0.6743	1.059	0.8412	0 13.4	1.2779	7 21.8	0.8868	7.706
5	22.9	0.6770	1.066	0.8436	0 12.7	1.2775	7 17.7	0.8892	7.749
6	23.0	0.6798	1.072	0.8461	0 12.0	1.2772	7 13.5	0.8916	7.791
7	23.0	0.6825	1.078	0.8485	0 11.3	1.2768	7 9.4	0.8938	7.830
8	23.1	0.6853	1.084	0.8508	0 10.6	1.2764	7 5.2	0.8958	7.866
9	23.2	0.6880	+1.090	0.8531	0 10.0	1.2761	7 1.0	0.8977	+7.901
10	23.2	0.6907	1.096	0.8555	0 9.4	1.2758	6 56.8	0.8995	7.934
11	23.3	0.6935	1.102	0.8578	0 8.9	1.2755	6 52.6	0.9011	7.964
12	23.4	0.6962	1.108	0.8601	0 8.3	1.2752	6 48.4	0.9026	7.991
13	23.4	0.6990	1.113	0.8623	0 7.8	1.2750	6 44.2	0.9040	8.017
14	23.5	0.7017	1.119	0.8645	0 7.3	1.2747	6 40.0	0.9053	8.040
15	23.6	0.7044	+1.125	0.8667	0 6.9	1.2745	6 35.7	0.9064	+8.061
16	23.6	0.7072	1.131	0.8689	0 6.4	1.2744	6 31.5	0.9074	8.080
17	23.7	0.7099	1.137	0.8711	0 6.0	1.2742	6 27.3	0.9083	8.096
18	23.8	0.7126	1.142	0.8733	0 5.6	1.2741	6 23.0	0.9090	8.110
19	23.8	0.7154	1.148	0.8754	0 5.2	1.2739	6 18.8	0.9097	8.122
20	23.9	0.7181	1.154	0.8776	0 4.8	1.2738	6 14.5	0.9101	8.131
21	0.0	0.7209	+1.159	0.8797	0 4.5	1.2738	6 10.2	0.9105	+8.137
22	0.0	0.7236	1.165	0.8818	0 4.2	1.2737	6 6.0	0.9107	8.142
23	0.1	0.7263	1.171	0.8839	0 3.9	1.2737	6 1.7	0.9108	8.144
24	0.2	0.7291	1.177	0.8860	0 3.6	1.2737	5 57.4	0.9108	8.143
25	0.2	0.7318	1.182	0.8881	0 3.4	1.2737	5 53.2	0.9107	8.141
26	0.3	0.7345	1.188	0.8902	0 3.2	1.2738	5 48.9	0.9104	8.136
27	0.4	0.7373	+1.194	0.8922	0 3.0	1.2739	5 44.6	0.9100	+8.129
28	0.4	0.7400	1.199	0.8943	0 2.8	1.2740	5 40.3	0.9096	8.120
29	0.5	0.7428	1.205	0.8963	0 2.6	1.2741	5 36.1	0.9089	8.107
30	0.6	0.7455	1.211	0.8984	0 2.5	1.2742	5 31.8	0.9081	8.092
Okt. 1	0.6	0.7482	1.217	0.9004	0 2.4	1.2744	5 27.5	0.9072	8.076
2	0.7	0.7510	1.222	0.9025	0 2.3	1.2746	5 23.3	0.9062	8.057
3	0.8	0.7537	+1.228	0.9045	0 2.2	1.2748	5 19.0	0.9050	+8.035
4	0.8	0.7564	1.234	0.9066	0 2.1	1.2750	5 14.7	0.9037	8.011
5	0.9	0.7592	1.240	0.9087	0 2.1	1.2753	5 10.4	0.9022	7.984
6	1.0	0.7619	1.246	0.9107	0 2.1	1.2756	5 6.2	0.9006	7.955
7	1.0	0.7647	1.252	0.9128	0 2.1	1.2759	5 1.9	0.8989	7.923
8	1.1	0.7674	1.258	0.9149	0 2.1	1.2762	4 57.7	0.8971	7.890
9	1.1	0.7701	+1.264	0.9170	0 2.1	1.2766	4 53.4	0.8951	+7.854
10	1.2	0.7729	1.270	0.9190	0 2.1	1.2769	4 49.2	0.8930	7.816
11	1.3	0.7756	1.276	0.9211	0 2.2	1.2773	4 44.9	0.8908	7.776
12	1.3	0.7784	1.282	0.9232	0 2.2	1.2777	4 40.7	0.8883	7.732
13	1.4	0.7811	1.289	0.9254	0 2.3	1.2781	4 36.4	0.8858	7.687
14	1.5	0.7838	+1.295	0.9275	0 2.4	1.2786	4 32.2	0.8830	+7.639

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26′ "	"	" in 0.01	in 0.001	
Sept. 3	+12	+10	2.4	+33.76	−16.52	+20	46.86	−0.43	− 6	30	83
4	+15	10	0.9	33.90	16.56	+25	46.86	0.41	− 2	30	83
5	+15	10	23.4	34.03	16.59	+25	46.86	0.39	+ 2	30	83
6	+13	10	22.0	34.17	16.63	+21	46.85	0.37	+ 5	31	83
7	+ 9	9	20.5	34.31	16.67	+14	46.85	0.35	+ 7	31	83
8	+ 3	9	19.0	34.45	16.71	+ 6	46.85	0.33	+ 9	31	82
9	− 2	+ 8	17.3	+34.58	−16.75	− 4	46.85	−0.31	+ 8	31	82
10	− 7	8	15.6	34.72	16.79	−12	46.85	0.30	+ 7	31	82
11	−11	8	13.9	34.86	16.83	−19	46.85	0.28	+ 4	31	82
12	−14	9	12.1	35.00	16.87	−22	46.85	0.26	0	32	82
13	−14	10	10.6	35.13	16.91	−23	46.85	0.25	− 3	32	82
14	−12	10	9.2	35.27	16.96	−19	46.84	0.23	− 7	32	82
15	− 8	+10	8.0	+35.41	−17.00	−13	46.84	−0.22	− 9	32	82
16	− 3	10	6.7	35.55	17.04	− 4	46.84	0.21	−10	32	82
17	+ 3	9	5.2	35.69	17.09	+ 4	46.84	0.19	− 9	32	82
18	+ 7	7	3.4	35.82	17.13	+11	46.84	0.18	− 6	33	82
19	+ 9	6	0.8	35.96	17.18	+15	46.84	0.17	− 1	33	82
20	+ 9	7	22.0	36.10	17.22	+14	46.84	0.16	+ 3	33	82
21	+ 5	+ 8	19.7	+36.24	−17.26	+ 9	46.84	−0.15	+ 7	33	82
22	0	9	18.1	36.37	17.31	0	46.83	0.14	+ 9	33	82
23	− 5	10	16.6	36.51	17.35	− 8	46.83	0.13	+ 9	33	82
24	− 9	9	15.2	36.65	17.40	−15	46.83	0.12	+ 7	34	82
25	−11	8	13.3	36.79	17.44	−19	46.83	0.12	+ 3	34	82
26	−10	7	10.9	36.92	17.49	−17	46.83	0.11	− 2	34	82
27	− 6	+ 7	8.2	+37.06	−17.53	−10	46.83	−0.10	− 6	34	82
28	0	8	6.0	37.20	17.58	0	46.83	0.10	− 8	34	82
29	+ 7	10	4.2	37.34	17.62	+11	46.82	0.09	− 9	34	82
30	+12	10	2.7	37.47	17.66	+20	46.82	0.09	− 7	35	82
Okt. 1	+16	11	1.3	37.61	17.71	+25	46.82	0.08	− 4	35	82
2	+16	11	23.9	37.75	17.75	+27	46.82	0.08	0	35	82
3	+14	+10	22.5	+37.89	−17.79	+24	46.82	−0.08	+ 4	35	82
4	+11	10	20.9	38.03	17.83	+17	46.82	0.08	+ 7	35	82
5	+ 5	9	19.5	38.16	17.88	+ 9	46.82	0.08	+ 8	35	82
6	0	8	17.9	38.30	17.92	− 1	46.82	0.07	+ 8	36	82
7	− 6	8	16.1	38.44	17.96	− 9	46.81	0.07	+ 7	36	82
8	−10	8	14.4	38.58	18.00	−16	46.81	0.08	+ 5	36	82
9	−12	+ 8	12.7	+38.71	−18.03	−20	46.81	−0.08	+ 2	36	83
10	−13	9	11.1	38.85	18.07	−22	46.81	0.08	− 2	36	83
11	−12	10	9.6	38.99	18.11	−20	46.81	0.08	− 6	36	83
12	− 9	10	8.4	39.13	18.14	−15	46.81	0.08	− 8	37	83
13	− 5	10	7.1	39.26	18.18	− 7	46.81	0.09	−10	37	83
14	+ 1	+ 9	5.9	+39.40	−18.21	+ 1	46.81	−0.09	− 9	37	83

Reduktionsgrößen 1945

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1945	h	s	s		h m		h m		"
Okt. 14	1.5	0.7838	+1.295	0.9275	0 2.4	1.2786	4 32.2	0.8830	+7.639
15	1.5	0.7866	1.301	0.9297	0 2.5	1.2790	4 28.0	0.8802	7.589
16	1.6	0.7893	1.308	0.9318	0 2.6	1.2795	4 23.8	0.8771	7.536
17	1.7	0.7920	1.314	0.9340	0 2.8	1.2800	4 19.6	0.8740	7.482
18	1.7	0.7948	1.321	0.9362	0 2.9	1.2805	4 15.4	0.8707	7.425
19	1.8	0.7975	1.328	0.9384	0 3.1	1.2810	4 11.2	0.8672	7.366
20	1.9	0.8003	+1.334	0.9406	0 3.2	1.2815	4 7.0	0.8636	+7.305
21	1.9	0.8030	1.341	0.9428	0 3.4	1.2821	4 2.8	0.8598	7.241
22	2.0	0.8057	1.348	0.9450	0 3.6	1.2827	3 58.7	0.8559	7.176
23	2.1	0.8085	1.355	0.9473	0 3.8	1.2832	3 54.5	0.8517	7.108
24	2.1	0.8112	1.362	0.9496	0 3.9	1.2838	3 50.3	0.8474	7.037
25	2.2	0.8139	1.370	0.9519	0 4.1	1.2844	3 46.2	0.8429	6.965
26	2.3	0.8167	+1.377	0.9542	0 4.3	1.2850	3 42.0	0.8382	+6.890
27	2.3	0.8194	1.384	0.9565	0 4.6	1.2856	3 37.9	0.8334	6.814
28	2.4	0.8222	1.392	0.9588	0 4.8	1.2863	3 33.8	0.8283	6.735
29	2.5	0.8249	1.399	0.9611	0 5.0	1.2869	3 29.7	0.8231	6.654
30	2.5	0.8276	1.407	0.9634	0 5.2	1.2875	3 25.6	0.8177	6.572
31	2.6	0.8304	1.414	0.9658	0 5.5	1.2881	3 21.5	0.8120	6.486
Nov. 1	2.7	0.8331	+1.422	0.9682	0 5.7	1.2888	3 17.5	0.8061	+6.399
2	2.7	0.8358	1.430	0.9707	0 5.9	1.2894	3 13.4	0.8000	6.310
3	2.8	0.8386	1.438	0.9731	0 6.1	1.2901	3 9.3	0.7937	6.219
4	2.9	0.8413	1.446	0.9756	0 6.4	1.2907	3 5.3	0.7872	6.126
5	2.9	0.8441	1.454	0.9780	0 6.6	1.2914	3 1.3	0.7804	6.031
6	3.0	0.8468	1.463	0.9805	0 6.8	1.2920	2 57.2	0.7734	5.935
7	3.1	0.8495	+1.471	0.9830	0 7.0	1.2927	2 53.2	0.7661	+5.836
8	3.1	0.8523	1.480	0.9855	0 7.3	1.2934	2 49.2	0.7586	5.736
9	3.2	0.8550	1.488	0.9880	0 7.5	1.2940	2 45.2	0.7507	5.633
10	3.3	0.8578	1.497	0.9905	0 7.7	1.2947	2 41.2	0.7426	5.529
11	3.3	0.8605	1.506	0.9931	0 7.9	1.2953	2 37.3	0.7342	5.423
12	3.4	0.8632	1.514	0.9957	0 8.1	1.2959	2 33.3	0.7256	5.316
13	3.4	0.8660	+1.523	0.9982	0 8.3	1.2966	2 29.4	0.7166	+5.207
14	3.5	0.8687	1.533	1.0008	0 8.5	1.2972	2 25.4	0.7072	5.096
15	3.6	0.8714	1.542	1.0034	0 8.7	1.2978	2 21.5	0.6975	4.983
16	3.6	0.8742	1.551	1.0061	0 8.9	1.2985	2 17.5	0.6874	4.869
17	3.7	0.8769	1.560	1.0087	0 9.1	1.2991	2 13.6	0.6771	4.754
18	3.8	0.8797	1.570	1.0113	0 9.2	1.2997	2 9.7	0.6662	4.637
19	3.8	0.8824	+1.579	1.0139	0 9.4	1.3003	2 5.8	0.6549	+4.518
20	3.9	0.8851	1.589	1.0166	0 9.5	1.3008	2 1.9	0.6433	4.398
21	4.0	0.8879	1.599	1.0192	0 9.7	1.3014	1 58.0	0.6310	4.276
22	4.0	0.8906	1.609	1.0219	0 9.8	1.3020	1 54.2	0.6184	4.153
23	4.1	0.8933	1.619	1.0246	0 9.9	1.3025	1 50.4	0.6052	4.029
24	4.2	0.8961	+1.629	1.0273	0 10.0	1.3031	1 46.5	0.5915	+3.904

Tag	f′	g′	G′	Allgemeine Präzession seit 1945.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
	0ʰ Welt-Zeit										
1945	s in 0.001	″ in 0.01	h	″	″	″ in 0.01	23° 26′ ″	″	″ in 0.01	in 0.001	
Okt. 14	+ 1	+ 9	5.9	+39.40	−18.21	+ 1	46.81	−0.09	− 9	37	83
15	+ 5	7	4.2	39.54	18.25	+ 8	46.80	0.09	− 6	37	83
16	+ 8	6	1.5	39.68	18.28	+13	46.80	0.10	− 2	37	83
17	+ 8	6	22.5	39.81	18.31	+14	46.80	0.10	+ 2	38	83
18	+ 6	8	20.0	39.95	18.34	+10	46.80	0.11	+ 7	38	83
19	+ 1	9	18.3	40.09	18.37	+ 2	46.80	0.12	+ 9	38	83
20	− 4	+10	17.0	+40.23	−18.40	− 7	46.80	−0.12	+10	38	83
21	− 9	10	15.5	40.36	18.42	−15	46.80	0.13	+ 8	38	84
22	−12	9	14.0	40.50	18.44	−20	46.80	0.14	+ 5	39	84
23	−12	8	11.9	40.64	18.47	−20	46.79	0.15	0	39	84
24	− 8	7	9.3	40.78	18.49	−14	46.79	0.15	− 5	39	84
25	− 3	8	6.8	40.92	18.51	− 4	46.79	0.16	− 8	39	84
26	+ 5	+10	4.7	+41.05	−18.53	+ 8	46.79	−0.17	− 9	39	84
27	+11	11	3.2	41.19	18.55	+18	46.79	0.18	− 8	40	84
28	+16	11	1.7	41.33	18.56	+26	46.79	0.19	− 5	40	84
29	+17	11	0.3	41.47	18.58	+29	46.79	0.20	− 1	40	84
30	+16	11	22.9	41.60	18.59	+27	46.79	0.21	+ 3	40	85
31	+13	10	21.4	41.74	18.60	+21	46.78	0.22	+ 7	40	85
Nov. 1	+ 8	+10	20.0	+41.88	−18.61	+12	46.78	−0.23	+ 8	41	85
2	+ 2	9	18.5	42.02	18.62	+ 3	46.78	0.24	+ 9	41	85
3	− 4	8	16.8	42.15	18.63	− 6	46.78	0.25	+ 8	41	85
4	− 8	8	15.0	42.29	18.63	−13	46.78	0.26	+ 5	41	85
5	−11	8	13.2	42.43	18.64	−18	46.78	0.27	+ 2	41	85
6	−12	8	11.3	42.57	18.64	−20	46.78	0.28	− 1	42	86
7	−12	+ 9	9.9	+42.70	−18.64	−19	46.77	−0.29	− 5	42	86
8	− 9	10	8.6	42.84	18.64	−15	46.77	0.31	− 8	42	86
9	− 5	10	7.4	42.98	18.63	− 9	46.77	0.32	− 9	42	86
10	− 1	9	6.2	43.12	18.63	− 1	46.77	0.33	− 9	43	86
11	+ 4	8	4.8	43.25	18.62	+ 6	46.77	0.34	− 8	43	86
12	+ 7	6	2.8	43.39	18.62	+12	46.77	0.35	− 4	43	86
13	+ 8	+ 5	23.9	+43.53	−18.61	+13	46.77	−0.36	0	43	86
14	+ 7	6	20.8	43.67	18.60	+11	46.77	0.37	+ 5	44	87
15	+ 2	8	18.7	43.81	18.58	+ 4	46.76	0.38	+ 8	44	87
16	− 3	9	17.2	43.94	18.57	− 5	46.76	0.39	+ 9	44	87
17	− 9	10	15.8	44.08	18.56	−15	46.76	0.40	+ 9	44	87
18	−13	10	14.3	44.22	18.54	−21	46.76	0.41	+ 6	45	87
19	−14	+ 9	12.5	+44.36	−18.52	−23	46.76	−0.42	+ 1	45	87
20	−12	8	10.4	44.49	18.50	−19	46.76	0.43	− 3	45	87
21	− 6	8	7.9	44.63	18.48	−10	46.76	0.44	− 7	46	87
22	+ 1	9	5.7	44.77	18.45	+ 2	46.76	0.45	− 9	46	87
23	+ 8	10	3.8	44.91	18.43	+14	46.75	0.46	− 9	46	88
24	+14	+11	2.2	+45.04	−18.40	+23	46.75	−0.47	− 6	46	88

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1945	h	a	s		h m		h m		"
Nov. 24	4.2	0.8961	+1.629	1.0273	0 10.0	1.3031	1 46.5	0.5915	+3.904
25	4.2	0.8988	1.639	1.0300	0 10.1	1.3036	1 42.6	0.5771	3.777
26	4.3	0.9016	1.649	1.0327	0 10.2	1.3041	1 38.8	0.5622	3.649
27	4.4	0.9043	1.659	1.0354	0 10.3	1.3046	1 34.9	0.5465	3.520
28	4.4	0.9070	1.669	1.0381	0 10.4	1.3051	1 31.1	0.5301	3.389
29	4.5	0.9098	1.680	1.0408	0 10.5	1.3055	1 27.3	0.5130	3.258
30	4.6	0.9125	+1.690	1.0435	0 10.5	1.3060	1 23.5	0.4950	+3.126
Dez. 1	4.6	0.9152	1.701	1.0462	0 10.6	1.3064	1 19.7	0.4760	2.992
2	4.7	0.9180	1.712	1.0489	0 10.6	1.3068	1 15.9	0.4561	2.858
3	4.8	0.9207	1.722	1.0516	0 10.6	1.3072	1 12.1	0.4350	2.723
4	4.8	0.9235	1.733	1.0543	0 10.6	1.3076	1 8.3	0.4128	2.587
5	4.9	0.9262	1.744	1.0570	0 10.6	1.3080	1 4.5	0.3890	2.449
6	5.0	0.9289	+1.754	1.0596	0 10.6	1.3083	1 0.8	0.3638	+2.311
7	5.0	0.9317	1.765	1.0623	0 10.6	1.3087	0 57.0	0.3369	2.172
8	5.1	0.9344	1.776	1.0650	0 10.5	1.3090	0 53.2	0.3081	2.033
9	5.2	0.9371	1.788	1.0677	0 10.5	1.3093	0 49.4	0.2769	1.892
10	5.2	0.9399	1.799	1.0704	0 10.4	1.3095	0 45.7	0.2433	1.751
11	5.3	0.9426	1.810	1.0731	0 10.3	1.3098	0 41.9	0.2068	1.610
12	5.4	0.9454	+1.821	1.0757	0 10.2	1.3100	0 38.2	0.1667	+1.468
13	5.4	0.9481	1.832	1.0784	0 10.1	1.3102	0 34.4	0.1225	1.326
14	5.5	0.9508	1.843	1.0810	0 10.0	1.3104	0 30.7	0.0730	1.183
15	5.6	0.9536	1.855	1.0837	0 9.9	1.3106	0 26.9	0.0170	1.040
16	5.6	0.9563	1.866	1.0863	0 9.7	1.3107	0 23.2	9.9528	0.897
17	5.7	0.9591	1.877	1.0889	0 9.6	1.3108	0 19.5	9.8768	0.753
18	5.8	0.9618	+1.888	1.0915	0 9.4	1.3109	0 15.7	9.7839	+0.608
19	5.8	0.9645	1.900	1.0941	0 9.3	1.3110	0 12.0	9.6665	0.464
20	5.9	0.9673	1.911	1.0966	0 9.1	1.3111	0 8.2	9.5038	0.319
21	5.9	0.9700	1.922	1.0992	0 8.9	1.3111	0 4.5	9.2405	0.174
22	6.0	0.9727	1.934	1.1017	0 8.7	1.3111	0 0.8	8.4624	+0.029
23	6.1	0.9755	1.945	1.1042	0 8.5	1.3111	23 57.0	9.0607*n*	−0.115
24	6.1	0.9782	+1.957	1.1067	0 8.2	1.3111	23 53.3	9.4150*n*	−0.260
25	6.2	0.9810	1.968	1.1092	0 8.0	1.3110	23 49.6	9.6064*n*	0.404
26	6.3	0.9837	1.979	1.1117	0 7.8	1.3109	23 45.8	9.7396*n*	0.549
27	6.3	0.9864	1.991	1.1142	0 7.5	1.3109	23 42.1	9.8407*n*	0.693
28	6.4	0.9892	2.002	1.1166	0 7.2	1.3108	23 38.3	9.9227*n*	0.837
29	6.5	0.9919	2.013	1.1191	0 7.0	1.3106	23 34.6	9.9917*n*	0.981
30	6.5	0.9946	+2.025	1.1215	0 6.7	1.3105	23 30.8	0.0512*n*	−1.125
31	6.6	0.9974	2.036	1.1239	0 6.4	1.3103	23 27.1	0.1035*n*	1.269
32	6.7	1.0001	+2.047	1.1262	0 6.1	1.3101	23 23.3	0.1495*n*	−1.411

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1945.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1945	in 0.ˢ001	in 0.″01				in 0.″01	23° 26′		in 0.″01	in 0.001	
Nov. 24	+14	+11	2.ʰ2	+45.″04	−18.″40	+23	46.″75	−0.″47	− 6	46	88
25	+18	12	0.8	45.18	18.38	+29	46.75	0.47	− 2	47	88
26	+18	12	23.3	45.32	18.35	+29	46.75	0.48	+ 2	47	88
27	+15	11	22.0	45.46	18.32	+24	46.75	0.49	+ 6	47	88
28	+10	10	20.6	45.59	18.28	+16	46.75	0.49	+ 8	48	88
29	+ 4	9	19.1	45.73	18.25	+ 7	46.75	0.50	+ 9	48	88
30	− 2	+ 8	17.5	+45.87	−18.22	− 3	46.75	−0.51	+ 8	48	88
Dez. 1	− 7	8	15.7	46.01	18.18	−11	46.74	0.51	+ 6	49	88
2	−10	7	13.7	46.15	18.15	−16	46.74	0.52	+ 3	49	88
3	−12	8	11.9	46.28	18.11	−19	46.74	0.52	0	49	88
4	−11	8	10.2	46.42	18.07	−19	46.74	0.52	− 4	49	89
5	− 9	9	8.7	46.56	18.03	−15	46.74	0.53	− 7	50	89
6	− 6	+ 9	7.6	+46.70	−18.00	− 9	46.74	−0.53	− 9	50	89
7	− 1	9	6.3	46.83	17.95	− 2	46.74	0.53	− 9	50	89
8	+ 3	8	5.0	46.97	17.91	+ 6	46.73	0.53	− 8	51	89
9	+ 7	7	3.3	47.11	17.86	+11	46.73	0.53	− 5	51	89
10	+ 9	6	0.9	47.25	17.82	+14	46.73	0.53	− 1	51	89
11	+ 8	6	22.0	47.38	17.78	+13	46.73	0.53	+ 3	52	89
12	+ 4	+ 7	19.4	+47.52	−17.73	+ 7	46.73	−0.53	+ 7	52	89
13	− 1	9	17.7	47.66	17.69	− 2	46.73	0.53	+ 9	52	89
14	− 7	10	16.2	47.80	17.64	−12	46.73	0.52	+ 9	53	89
15	−12	10	14.7	47.93	17.59	−20	46.73	0.52	+ 7	53	89
16	−15	10	13.2	48.07	17.55	−24	46.72	0.52	+ 3	53	89
17	−14	9	11.3	48.21	17.50	−22	46.72	0.51	− 2	54	89
18	− 9	+ 9	9.0	+48.35	−17.45	−15	46.72	−0.51	− 6	54	89
19	− 3	9	6.8	48.48	17.40	− 5	46.72	0.50	− 9	54	89
20	+ 5	10	4.7	48.62	17.35	+ 8	46.72	0.49	− 9	54	89
21	+12	11	3.0	48.76	17.31	+19	46.72	0.49	− 7	55	89
22	+16	11	1.3	48.90	17.26	+26	46.72	0.48	− 4	55	89
23	+17	11	23.9	49.04	17.21	+29	46.72	0.47	0	55	89
24	+16	+11	22.4	+49.17	−17.16	+26	46.71	−0.46	+ 5	56	89
25	+12	11	21.0	49.31	17.11	+19	46.71	0.45	+ 8	56	89
26	+ 6	10	19.6	49.45	17.06	+10	46.71	0.44	+ 9	56	89
27	0	9	18.0	49.59	17.02	0	46.71	0.43	+ 9	57	89
28	− 5	8	16.3	49.72	16.97	− 9	46.71	0.41	+ 7	57	89
29	− 9	7	14.4	49.86	16.92	−15	46.71	0.40	+ 4	57	89
30	−12	+ 8	12.3	+50.00	−16.88	−20	46.71	−0.39	+ 1	58	89
31	−12	8	10.6	50.14	16.83	−19	46.71	0.37	− 3	58	89
32	−10	+ 9	9.2	+50.27	−16.78	−16	46.70	−0.36	− 6	58	89

Reduktionsgrößen 1945

für 12^h Sternzeit Greenwich

Welt-Zeit		*t*	*A*	Δ	*A'*	*B*	Δ	*B'*	*C*	Δ	*D*	Δ
1945		a			in 0.00001	"		in 0."001	"		"	
Jan.	0.224	−0.0013	−0.31943	353	+381	+3.437	15	+53	−3.080	328	+20.192	63
	1.221	+0.0014	0.31590	353	+454	3.422	16	+22	3.408	327	20.129	69
	2.218	0.0041	0.31237	351	+448	3.406	16	−12	3.735	326	20.060	75
	3.215	0.0069	0.30886	350	+371	3.390	17	−46	4.061	325	19.985	81
	4.213	0.0096	0.30536	348	+236	3.373	18	−69	4.386	323	19.904	88
	5.210	0.0123	0.30188	346	+ 64	3.355	18	−79	4.709	322	19.816	94
	6.207	0.0150	−0.29842	345	−119	+3.337	19	−79	− 5.031	320	+19.722	100
	7.204	0.0178	0.29497	343	−286	3.318	20	−63	5.351	318	19.622	107
	8.202	0.0205	0.29154	340	−410	3.298	20	−36	5.669	317	19.515	113
	9.199	0.0232	0.28814	339	−475	3.278	21	− 3	5.986	315	19.402	119
	10.196	0.0260	0.28475	337	−461	3.257	21	+35	6.301	313	19.283	125
	11.194	0.0287	0.28138	335	−369	3.236	21	+68	6.614	311	19.158	131
	12.191	0.0314	−0.27803	333	−212	+3.215	22	+89	− 6.925	309	+19.027	137
	13.188	0.0342	0.27470	330	− 23	3.193	22	+94	7.234	306	18.890	143
	14.185	0.0369	0.27140	328	+166	3.171	23	+78	7.540	303	18.747	148
	15.183	0.0396	0.26812	326	+306	3.148	24	+45	7.843	301	18.599	154
	16.180	0.0423	0.26486	323	+364	3.124	24	+ 2	8.144	298	18.445	160
	17.177	0.0451	0.26163	320	+329	3.100	25	−41	8.442	296	18.285	166
	18.174	0.0478	−0.25843	317	+209	+3.075	25	−72	− 8.738	293	+18.119	172
	19.172	0.0505	0.25526	315	+ 39	3.050	26	−88	9.031	290	17.947	178
	20.169	0.0533	0.25211	312	−138	3.024	25	−82	9.321	288	17.769	183
	21.166	0.0560	0.24899	310	−269	2.999	26	−57	9.609	285	17.586	188
	22.164	0.0587	0.24589	307	−324	2.973	26	−19	9.894	281	17.398	194
	23.161	0.0615	0.24282	304	−287	2.947	27	+21	10.175	278	17.204	199
	24.158	0.0642	−0.23978	301	−171	+2.920	27	+56	−10.453	274	+17.005	204
	25.155	0.0669	0.23677	297	− 2	2.893	27	+75	10.727	271	16.801	209
	26.153	0.0697	0.23380	294	+180	2.866	27	+77	10.998	268	16.592	215
	27.150	0.0724	0.23086	291	+331	2.839	28	+62	11.266	264	16.377	220
	28.147	0.0751	0.22795	288	+426	2.811	27	+34	11.530	260	16.157	225
	29.144	0.0778	0.22507	284	+450	2.784	28	0	11.790	256	15.932	230
	30.142	0.0806	−0.22223	282	+401	+2.756	28	−34	−12.046	253	+15.702	234
	31.139	0.0833	0.21941	279	+289	2.728	28	−60	12.299	249	15.468	239
Febr.	1.136	0.0860	0.21662	276	+132	2.700	28	−76	12.548	245	15.229	244
	2.133	0.0888	0.21386	272	− 47	2.672	28	−81	12.793	240	14.985	248
	3.131	0.0915	0.21114	269	−222	2.644	28	−71	13.033	236	14.737	253
	4.128	0.0942	0.20845	266	−372	2.616	28	−50	13.269	232	14.484	258
	5.125	0.0970	−0.20579	263	−473	+2.588	28	−17	−13.501	228	+14.226	262
	6.123	0.0997	0.20316	259	−498	2.560	28	+21	13.729	224	13.964	266
	7.120	0.1024	0.20057	257	−444	2.532	28	+55	13.953	220	13.698	270
	8.117	0.1051	0.19800	253	−315	2.504	28	+84	14.173	215	13.428	274
	9.114	0.1079	0.19547	250	−132	2.476	28	+96	14.388	210	13.154	278
	10.112	0.1106	−0.19297		+ 67	+2.448		+89	−14.598		+12.876	

Reduktionsgrößen 1945

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1945	s			in 0.00001	"		in 0.001	"		"	
Febr. 10.112	0.1106	−0.19297	247	+ 67	+2.448	27	+89	−14.598	206	+12.876	282
11.109	0.1133	0.19050	244	+237	2.421	27	+62	14.804	201	12.594	286
12.106	0.1161	0.18806	241	+338	2.394	27	+22	15.005	196	12.308	290
13.103	0.1188	0.18565	238	+346	2.367	27	−24	15.201	192	12.018	293
14.101	0.1215	0.18327	235	+264	2.340	26	−64	15.393	187	11.725	297
15.098	0.1243	0.18092	232	+110	2.314	27	−87	15.580	182	11.428	301
16.095	0.1270	−0.17860	229	− 64	+2.287	26	−90	−15.762	177	+11.127	304
17.093	0.1297	0.17631	226	−214	2.261	26	−70	15.939	172	10.823	307
18.090	0.1325	0.17405	223	−295	2.235	25	−35	16.111	166	10.516	310
19.087	0.1352	0.17182	221	−290	2.210	25	+ 6	16.277	162	10.206	313
20.084	0.1379	0.16961	218	−198	2.185	24	+46	16.439	157	9.893	315
21.082	0.1406	0.16743	215	− 40	2.161	24	+72	16.596	151	9.578	318
22.079	0.1434	−0.16528	213	+144	+2.137	24	+79	−16.747	146	+ 9.260	321
23.076	0.1461	0.16315	210	+305	2.113	23	+69	16.893	141	8.939	324
24.073	0.1488	0.16105	208	+421	2.090	23	+45	17.034	136	8.615	326
25.071	0.1516	0.15897	206	+463	2.067	22	+13	17.170	131	8.289	329
26.068	0.1543	0.15691	204	+432	2.045	22	−22	17.301	125	7.960	331
27.065	0.1570	0.15487	202	+340	2.023	22	−50	17.426	119	7.629	333
28.063	0.1598	−0.15285	200	+198	+2.001	21	−71	−17.545	114	+ 7.296	335
März 1.060	0.1625	0.15085	198	+ 30	1.980	20	−80	17.659	109	6.961	337
2.057	0.1652	0.14887	195	−147	1.960	20	−75	17.768	103	6.624	339
3.054	0.1679	0.14692	194	−306	1.940	19	−59	17.871	98	6.285	341
4.052	0.1707	0.14498	192	−428	1.921	18	−31	17.969	93	5.944	343
5.049	0.1734	0.14306	191	−492	1.903	18	+ 3	18.062	87	5.601	344
6.046	0.1761	−0.14115	189	−480	+1.885	17	+40	−18.149	81	+ 5.257	345
7.043	0.1789	0.13926	188	−389	1.868	17	+73	18.230	76	4.912	347
8.041	0.1816	0.13738	186	−235	1.851	16	+92	18.306	70	4.565	348
9.038	0.1843	0.13552	185	− 47	1.835	16	+95	18.376	65	4.217	349
10.035	0.1871	0.13367	184	+136	1.819	15	+76	18.441	59	3.868	350
11.032	0.1898	0.13183	183	+271	1.804	14	+40	18.500	53	3.518	351
12.030	0.1925	−0.13000	182	+323	+1.790	14	− 4	−18.553	48	+ 3.167	351
13.027	0.1953	0.12818	181	+280	1.776	13	−48	18.601	42	2.816	352
14.024	0.1980	0.12637	181	+155	1.763	13	−79	18.643	36	2.464	353
15.022	0.2007	0.12456	180	− 14	1.750	12	−92	18.679	31	2.111	353
16.019	0.2034	0.12276	180	−179	1.738	11	−82	18.710	25	1.758	354
17.016	0.2062	0.12096	179	−288	1.727	10	−52	18.735	20	1.404	354
18.013	0.2089	−0.11917	179	−312	+1.717	10	− 9	−18.755	14	+ 1.050	354
19.011	0.2116	0.11738	179	−239	1.707	9	+32	18.769	8	0.696	354
20.008	0.2144	0.11559	179	− 94	1.698	8	+65	18.777	2	+ 0.342	353
21.005	0.2171	0.11380	179	+ 95	1.690	7	+80	18.779	−3	− 0.011	354
22.002	0.2198	0.11201	180	+279	1.683	7	+77	18.776	9	0.365	353
23.000	0.2226	−0.11021		+419	+1.676		+56	−18.767		− 0.718	

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für 12^h Sternzeit Greenwich

Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1945	s			in 0.00001	"		in 0.001	"		"	
März 23.000	0.2226	−0.11021	179	+419	+1.676	6	+56	−18.767	14	− 0.718	353
23.997	0.2253	0.10842	180	+490	1.670	6	+24	18.753	19	1.071	352
24.994	0.2280	0.10662	180	+482	1.664	5	−11	18.734	25	1.423	352
25.992	0.2307	0.10482	180	+402	1.659	5	−43	18.709	31	1.775	351
26.989	0.2335	0.10302	182	+269	1.654	4	−66	18.678	37	2.126	350
27.986	0.2362	0.10120	182	+107	1.650	3	−77	18.641	42	2.476	349
28.983	0.2389	−0.09938	183	− 68	+1.647	2	−77	−18.599	47	− 2.825	348
29.981	0.2417	0.09755	184	−230	1.645	2	−66	18.552	53	3.173	347
30.978	0.2444	0.09571	185	−365	1.643	1	−41	18.499	58	3.520	346
31.975	0.2471	0.09386	186	−450	1.642	1	−10	18.441	64	3.866	345
April 1.972	0.2499	0.09200	188	−471	1.641	0	+27	18.377	69	4.211	343
2.970	0.2526	0.09012	189	−419	1.641	0	+60	18.308	74	4.554	342
3.967	0.2553	−0.08823	191	−301	+1.641	1	+86	−18.234	80	− 4.896	340
4.964	0.2581	0.08632	192	−134	1.642	2	+96	18.154	85	5.236	338
5.961	0.2608	0.08440	194	+ 49	1.644	2	+85	18.069	90	5.574	337
6.959	0.2635	0.08246	195	+199	1.646	3	+57	17.979	95	5.911	335
7.956	0.2662	0.08051	197	+285	1.649	3	+16	17.884	101	6.246	332
8.953	0.2690	0.07854	199	+280	1.652	4	−31	17.783	106	6.578	330
9.951	0.2717	−0.07655	200	+183	+1.656	4	−68	−17.677	111	− 6.908	328
10.948	0.2744	0.07455	203	+ 25	1.660	5	−92	17.566	116	7.236	326
11.945	0.2772	0.07252	205	−150	1.665	5	−91	17.450	121	7.562	323
12.942	0.2799	0.07047	207	−289	1.670	6	−67	17.329	126	7.885	321
13.940	0.2826	0.06840	209	−348	1.676	6	−29	17.203	130	8.206	318
14.937	0.2854	0.06631	212	−310	1.682	6	+16	17.073	135	8.524	316
15.934	0.2881	−0.06419	214	−182	+1.688	6	+55	−16.938	140	− 8.840	313
16.931	0.2908	0.06205	216	+ 10	1.694	7	+78	16.798	145	9.153	310
17.929	0.2935	0.05989	218	+216	1.701	7	+84	16.653	150	9.463	308
18.926	0.2963	0.05771	221	+395	1.708	8	+68	16.503	155	9.771	305
19.923	0.2990	0.05550	223	+502	1.716	8	+38	16.348	160	10.076	301
20.921	0.3017	0.05327	226	+526	1.724	9	+ 2	16.188	165	10.377	298
21.918	0.3045	−0.05101	229	+468	+1.733	8	−34	−16.023	169	−10.675	295
22.915	0.3072	0.04872	231	+346	1.741	9	−60	15.854	173	10.970	291
23.912	0.3099	0.04641	234	+186	1.750	9	−77	15.681	177	11.261	288
24.910	0.3127	0.04407	237	+ 10	1.759	9	−81	15.504	181	11.549	284
25.907	0.3154	0.04170	240	−161	1.768	9	−71	15.323	186	11.833	281
26.904	0.3181	0.03930	242	−302	1.777	10	−51	15.137	190	12.114	278
27.901	0.3209	−0.03688	245	−399	+1.787	9	−20	−14.947	194	−12.392	274
28.899	0.3236	0.03443	248	−439	1.796	10	+13	14.753	198	12.666	270
29.896	0.3263	0.03195	251	−416	1.806	10	+48	14.555	203	12.936	266
30.893	0.3290	0.02944	253	−325	1.816	10	+76	14.352	207	13.202	262
Mai 1.890	0.3318	0.02691	256	−179	1.826	10	+93	14.145	211	13.464	258
2.888	0.3345	−0.02435		− 10	+1.836		+91	−13.934		−13.722	

Reduktionsgrößen 1945

für 12h Sternzeit Greenwich

Welt-Zeit 1945		t	A		A′ in 0.00001	B		B′ in 0.001	C		D	
Mai	2.888	0.3345	−0.02435	259	−10	+1.836	11	+91	−13.934	214	−13.722	254
	3.885	0.3372	0.02176	262	+148	1.847	10	+71	13.720	218	13.976	250
	4.882	0.3400	0.01914	264	+258	1.857	10	+36	13.502	222	14.226	246
	5.880	0.3427	0.01650	267	+281	1.867	10	−9	13.280	226	14.472	242
	6.877	0.3454	0.01383	271	+218	1.877	10	−52	13.054	229	14.714	238
	7.874	0.3482	0.01112	273	+75	1.887	10	−82	12.825	232	14.952	233
	8.871	0.3509	−0.00839	276	−102	+1.897	10	−93	−12.593	236	−15.185	229
	9.869	0.3536	0.00563	278	−270	1.907	10	−81	12.357	240	15.414	224
	10.866	0.3563	0.00285	281	−374	1.917	9	−47	12.117	243	15.638	220
	11.863	0.3591	−0.00004	284	−383	1.926	10	−4	11.874	246	15.858	216
	12.860	0.3618	+0.00280	286	−289	1.936	9	+39	11.628	249	16.074	211
	13.858	0.3645	0.00566	290	−113	1.945	9	+72	11.379	252	16.285	206
	14.855	0.3673	+0.00856	292	+104	+1.954	9	+86	−11.127	256	−16.491	201
	15.852	0.3700	0.01148	295	+311	1.963	9	+79	10.871	259	16.692	196
	16.850	0.3727	0.01443	297	+465	1.972	8	+53	10.612	261	16.888	191
	17.847	0.3755	0.01740	300	+536	1.980	9	+17	10.351	264	17.079	187
	18.844	0.3782	0.02040	302	+519	1.989	8	−21	10.087	266	17.266	182
	19.841	0.3809	0.02342	305	+423	1.997	8	−54	9.821	269	17.448	177
	20.839	0.3837	+0.02647	307	+269	+2.005	8	−75	−9.552	272	−17.625	172
	21.836	0.3864	0.02954	309	+89	2.013	7	−83	9.280	275	17.797	167
	22.833	0.3891	0.03263	312	−92	2.020	7	−78	9.005	277	17.964	162
	23.830	0.3918	0.03575	314	−247	2.027	6	−60	8.728	279	18.126	156
	24.828	0.3946	0.03889	316	−358	2.033	6	−31	8.449	281	18.282	151
	25.825	0.3973	0.04205	318	−416	2.039	6	+2	8.168	284	18.433	146
	26.822	0.4000	+0.04523	321	−407	+2.045	5	+36	−7.884	286	−18.579	141
	27.819	0.4028	0.04844	322	−334	2.050	5	+67	7.598	288	18.720	135
	28.817	0.4055	0.05166	324	−204	2.055	4	+87	7.310	290	18.855	130
	29.814	0.4082	0.05490	326	−44	2.059	4	+92	7.020	291	18.985	125
	30.811	0.4110	0.05816	327	+119	2.063	3	+79	6.729	293	19.110	120
	31.809	0.4137	0.06143	329	+242	2.066	3	+49	6.436	295	19.230	115
Juni	1.806	0.4164	+0.06472	331	+297	+2.069	2	+8	−6.141	297	−19.345	109
	2.803	0.4191	0.06803	333	+263	2.071	2	−35	5.844	299	19.454	104
	3.800	0.4219	0.07136	334	+145	2.073	1	−71	5.545	300	19.558	98
	4.798	0.4246	0.07470	336	−26	2.074	1	−90	5.245	301	19.656	92
	5.795	0.4273	0.07806	337	−210	2.075	0	−87	4.944	302	19.748	87
	6.792	0.4301	0.08143	338	−355	2.075	0	−64	4.642	304	19.835	81
	7.789	0.4328	+0.08481	339	−416	+2.075	1	−24	−4.338	305	−19.916	76
	8.787	0.4355	0.08820	340	−369	2.074	1	+21	4.033	306	19.992	70
	9.784	0.4383	0.09160	341	−233	2.073	2	+60	3.727	307	20.062	65
	10.781	0.4410	0.09501	342	−30	2.071	3	+84	3.420	308	20.127	59
	11.779	0.4437	0.09843	344	+193	2.068	3	+85	3.112	308	20.186	54
	12.776	0.4465	+0.10187		+383	+2.065		+68	−2.804		−20.240	

Reduktionsgrößen 1945

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1945	h			in 0.00001	″		in 0.001	″		″	
Juni 12.776	0.4465	+0.10187	344	+383	+2.065	4	+68	−2.804	309	−20.240	48
13.773	0.4492	0.10531	345	+499	2.061	4	+34	2.495	310	20.288	42
14.770	0.4519	0.10876	345	+528	2.057	5	− 4	2.185	310	20.330	37
15.768	0.4546	0.11221	345	+469	2.052	5	−42	1.875	311	20.367	31
16.765	0.4574	0.11566	345	+340	2.047	6	−70	1.564	311	20.398	26
17.762	0.4601	0.11911	346	+167	2.041	7	−84	1.253	311	20.424	20
18.759	0.4628	+0.12257	346	− 20	+2.034	7	−84	−0.942	311	−20.444	14
19.757	0.4656	0.12603	347	−193	2.027	8	−72	0.631	312	20.458	8
20.754	0.4683	0.12950	347	−327	2.019	9	−45	0.319	312	20.466	3
21.751	0.4710	0.13297	347	−404	2.010	9	−11	−0.007	312	20.469	−3
22.749	0.4738	0.13644	347	−418	2.001	10	+25	+0.305	312	20.466	8
23.746	0.4765	0.13991	346	−366	1.991	10	+58	0.617	312	20.458	14
24.743	0.4792	+0.14337	346	−248	+1.981	11	+84	+0.929	311	−20.444	19
25.740	0.4819	0.14683	345	− 86	1.970	11	+94	1.240	311	20.425	25
26.738	0.4847	0.15028	345	+ 80	1.959	12	+86	1.551	310	20.400	31
27.735	0.4874	0.15373	345	+225	1.947	12	+61	1.861	310	20.369	37
28.732	0.4901	0.15718	344	+312	1.935	13	+25	2.171	309	20.332	42
29.729	0.4929	0.16062	344	+311	1.922	14	−19	2.480	309	20.290	48
30.727	0.4956	+0.16406	342	+226	+1.908	14	−58	+2.789	308	−20.242	53
Juli 1.724	0.4983	0.16748	342	+ 68	1.894	15	−84	3.097	307	20.189	59
2.721	0.5011	0.17090	341	−119	1.879	15	−90	3.404	306	20.130	64
3.718	0.5038	0.17431	339	−288	1.864	16	−73	3.710	305	20.066	70
4.716	0.5065	0.17770	338	−390	1.848	17	−39	4.015	304	19.996	75
5.713	0.5093	0.18108	337	−398	1.831	17	+ 2	4.319	303	19.921	81
6.710	0.5120	+0.18445	336	−304	+1.814	17	+45	+4.622	301	−19.840	86
7.708	0.5147	0.18781	334	−134	1.797	18	+75	4.923	300	19.754	92
8.705	0.5174	0.19115	333	+ 78	1.779	18	+85	5.223	298	19.662	98
9.702	0.5202	0.19448	331	+280	1.761	19	+76	5.521	297	19.564	103
10.699	0.5229	0.19779	330	+433	1.742	19	+49	5.818	295	19.461	108
11.697	0.5256	0.20109	328	+503	1.723	20	+12	6.113	294	19.353	113
12.694	0.5284	+0.20437	326	+485	+1.703	20	−26	+6.407	292	−19.240	118
13.691	0.5311	0.20763	325	+388	1.683	21	−58	6.699	290	19.122	124
14.688	0.5338	0.21088	322	+233	1.662	21	−78	6.989	288	18.998	129
15.686	0.5366	0.21410	321	+ 49	1.641	22	−87	7.277	286	18.869	134
16.683	0.5393	0.21731	319	−133	1.619	22	−79	7.563	285	18.735	139
17.680	0.5420	0.22050	316	−290	1.597	23	−58	7.848	283	18.596	144
18.678	0.5447	+0.22366	315	−396	+1.574	23	−27	+8.131	280	−18.452	150
19.675	0.5475	0.22681	313	−440	1.551	23	+10	8.411	278	18.302	155
20.672	0.5502	0.22994	311	−410	1.528	23	+46	8.689	275	18.147	160
21.669	0.5529	0.23305	308	−314	1.505	24	+76	8.964	273	17.987	165
22.667	0.5557	0.23613	306	−162	1.481	24	+92	9.237	270	17.822	170
23.664	0.5584	+0.23919		+ 15	+1.457		+92	+9.507		−17.652	

Reduktionsgrößen 1945

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1945	s			in 0.00001	"		in 0".001	"		"	
Juli 23.664	0.5584	+0.23919	304	+ 15	+1.457	25	+92	+ 9.507	268	−17.652	175
24.661	0.5611	0.24223	301	+180	1.432	25	+73	9.775	265	17.477	180
25.658	0.5639	0.24524	298	+297	1.407	25	+41	10.040	263	17.297	185
26.656	0.5666	0.24822	296	+337	1.382	25	− 3	10.303	260	17.112	189
27.653	0.5693	0.25118	294	+284	1.357	26	−46	10.563	257	16.923	194
28.650	0.5721	0.25412	291	+155	1.331	25	−77	10.820	254	16.729	198
29.647	0.5748	+0.25703	289	− 23	+1.306	26	−90	+11.074	251	−16.531	203
30.645	0.5775	0.25992	287	−200	1.280	26	−84	11.325	248	16.328	207
31.642	0.5802	0.26279	284	−332	1.254	26	−56	11.573	244	16.121	212
Aug. 1.639	0.5830	0.26563	281	−379	1.228	26	−13	11.817	241	15.909	217
2.637	0.5857	0.26844	279	−327	1.202	27	+29	12.058	238	15.692	221
3.634	0.5884	0.27123	275	−188	1.175	26	+65	12.296	235	15.471	225
4.631	0.5912	+0.27398	273	+ 5	+1.149	27	+83	+12.531	232	−15.246	230
5.628	0.5939	0.27671	270	+208	1.122	26	+81	12.763	228	15.016	234
6.626	0.5966	0.27941	268	+374	1.096	27	+61	12.991	224	14.782	238
7.623	0.5994	0.28209	265	+472	1.069	26	+27	13.215	221	14.544	242
8.620	0.6021	0.28474	262	+488	1.043	27	−11	13.436	217	14.302	247
9.617	0.6048	0.28736	259	+422	1.016	27	−48	13.653	213	14.055	251
10.615	0.6075	+0.28995	257	+290	+0.989	26	−73	+13.866	210	−13.804	255
11.612	0.6103	0.29252	254	+118	0.963	27	−84	14.076	206	13.549	258
12.609	0.6130	0.29506	251	− 66	0.936	26	−83	14.282	202	13.291	262
13.607	0.6157	0.29757	249	−236	0.910	26	−69	14.484	198	13.029	266
14.604	0.6185	0.30006	246	−369	0.884	26	−40	14.682	194	12.763	269
15.601	0.6212	0.30252	243	−441	0.858	26	− 6	14.876	190	12.494	273
16.598	0.6239	+0.30495	241	−448	+0.832	25	+32	+15.066	185	−12.221	277
17.596	0.6267	0.30736	238	−381	0.807	25	+65	15.251	181	11.944	280
18.593	0.6294	0.30974	236	−250	0.782	25	+88	15.432	177	11.664	283
19.590	0.6321	0.31210	233	− 80	0.757	25	+96	15.609	173	11.381	286
20.587	0.6349	0.31443	231	+ 99	0.732	25	+84	15.782	169	11.095	290
21.585	0.6376	0.31674	228	+244	0.707	25	+57	15.951	164	10.805	293
22.582	0.6403	+0.31902	226	+322	+0.682	24	+16	+16.115	159	−10.512	297
23.579	0.6430	0.32128	224	+310	0.658	24	−30	16.274	155	10.215	300
24.576	0.6458	0.32352	221	+211	0.634	24	−67	16.429	150	9.915	303
25.574	0.6485	0.32573	219	+ 51	0.610	24	−90	16.579	146	9.612	305
26.571	0.6512	0.32792	217	−129	0.586	23	−90	16.725	141	9.307	307
27.568	0.6540	0.33009	215	−278	0.563	23	−66	16.866	136	9.000	310
28.566	0.6567	+0.33224	212	−356	+0.540	22	−30	+17.002	132	− 8.690	313
29.563	0.6594	0.33436	210	−336	0.518	22	+14	17.134	127	8.377	315
30.560	0.6622	0.33646	209	−222	0.496	21	+54	17.261	122	8.062	318
31.557	0.6649	0.33855	207	− 44	0.475	21	+81	17.383	117	7.744	320
Sept. 1.555	0.6676	0.34062	204	+159	0.454	20	+86	17.500	112	7.424	323
2.552	0.6703	+0.34266		+344	+0.434		+71	+17.612		− 7.101	

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Welt-Zeit	t	A		A′	B		B′	C		D	
1945	s			in 0.00001	″		in 0.″001	″		″	
Sept. 2.552	0.6703	+0.34266	203	+344	+0.434	20	+71	+17.612	108	−7.101	325
3.549	0.6731	0.34469	201	+462	0.414	20	+41	17.720	103	6.776	327
4.546	0.6758	0.34670	199	+503	0.394	19	+ 3	17.823	97	6.449	329
5.544	0.6785	0.34869	198	+457	0.375	19	−35	17.920	92	6.120	330
6.541	0.6813	0.35067	196	+344	0.356	18	−65	18.012	87	5.790	332
7.538	0.6840	0.35263	195	+187	0.338	18	−82	18.099	82	5.458	334
8.536	0.6867	+0.35458	194	+ 9	+0.320	17	−87	+18.181	77	−5.124	336
9.533	0.6895	0.35652	192	−169	0.303	17	−75	18.258	72	4.788	338
10.530	0.6922	0.35844	191	−313	0.286	16	−51	18.330	67	4.450	339
11.527	0.6949	0.36035	191	−413	0.270	15	−20	18.397	61	4.111	340
12.525	0.6977	0.36226	189	−450	0.255	15	+16	18.458	56	3.771	341
13.522	0.7004	0.36415	189	−421	0.240	14	+51	18.514	51	3.430	342
14.519	0.7031	+0.36604	187	−325	+0.226	13	+79	+18.565	45	−3.088	344
15.516	0.7058	0.36791	187	−174	0.213	13	+96	18.610	40	2.744	345
16.514	0.7086	0.36978	186	+ 2	0.200	12	+93	18.650	35	2.399	346
17.511	0.7113	0.37164	186	+161	0.188	12	+71	18.685	29	2.053	346
18.508	0.7140	0.37350	185	+272	0.176	11	+34	18.714	24	1.707	347
19.505	0.7168	0.37535	185	+301	0.165	11	−11	18.738	18	1.360	347
20.503	0.7195	+0.37720	185	+239	+0.154	10	−54	+18.756	13	−1.013	348
21.500	0.7222	0.37905	184	+ 98	0.144	9	−83	18.769	8	0.665	349
22.497	0.7250	0.38089	185	− 78	0.135	8	−93	18.777	2	−0.316	349
23.495	0.7277	0.38274	184	−243	0.127	8	−81	18.779	— 3	+0.033	349
24.492	0.7304	0.38458	184	−350	0.119	7	−47	18.776	9	0.382	350
25.489	0.7331	0.38642	185	−364	0.112	6	− 2	18.767	14	0.732	349
26.486	0.7359	+0.38827	185	−274	+0.106	6	+41	+18.753	19	+1.081	349
27.484	0.7386	0.39012	186	−102	0.100	5	+73	18.734	25	1.430	349
28.481	0.7413	0.39198	186	+107	0.095	5	+85	18.709	31	1.779	348
29.478	0.7441	0.39384	187	+310	0.090	4	+78	18.678	36	2.127	348
30.475	0.7468	0.39571	188	+461	0.086	3	+53	18.642	41	2.475	347
Okt. 1.473	0.7495	0.39759	189	+531	0.083	3	+16	18.601	47	2.822	346
2.470	0.7523	+0.39948	190	+511	+0.080	2	−22	+18.554	53	+3.168	346
3.467	0.7550	0.40138	190	+415	0.078	2	−56	18.501	58	3.514	345
4.465	0.7577	0.40328	192	+262	0.076	1	−77	18.443	64	3.859	344
5.462	0.7605	0.40520	193	+ 87	0.075	1	−86	18.379	69	4.203	343
6.459	0.7632	0.40713	195	− 93	0.074	0	−80	18.310	74	4.546	342
7.456	0.7659	0.40908	197	−247	0.074	1	−61	18.236	80	4.888	341
8.454	0.7686	+0.41105	198	−362	+0.075	1	−32	+18.156	85	+5.229	340
9.451	0.7714	0.41303	200	−423	0.076	2	+ 2	18.071	90	5.569	338
10.448	0.7741	0.41503	201	−421	0.078	3	+37	17.981	96	5.907	337
11.445	0.7768	0.41704	203	−358	0.081	3	+69	17.885	102	6.244	335
12.443	0.7796	0.41907	205	−232	0.084	4	+90	17.783	107	6.579	333
13.440	0.7823	+0.42112		− 76	+0.088		+96	+17.676		+6.912	

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Welt-Zeit	t	A		A'	B		B'	C		D	
1945	s			in 0.00001	″		in 0″.001	″		″	
Okt. 13.440	0.7823	+0.42112	206	− 76	+0.088	4	+96	+17.676	112	+ 6.912	331
14.437	0.7850	0.42318	208	+ 87	0.092	4	+82	17.564	117	7.243	329
15.435	0.7878	0.42526	211	+213	0.096	5	+52	17.447	123	7.572	327
16.432	0.7905	0.42737	213	+273	0.101	5	+ 9	17.324	128	7.899	325
17.429	0.7932	0.42950	216	+245	0.106	6	−36	17.196	133	8.224	323
18.426	0.7959	0.43166	218	+133	0.112	7	−75	17.063	138	8.547	321
19.424	0.7987	+0.43384	220	− 36	+0.119	7	−94	+16.925	143	+ 8.868	318
20.421	0.8014	0.43604	223	−217	0.126	7	−90	16.782	148	9.186	315
21.418	0.8041	0.43827	226	−354	0.133	8	−63	16.634	153	9.501	312
22.415	0.8069	0.44053	228	−409	0.141	8	−21	16.481	159	9.813	310
23.413	0.8096	0.44281	231	−346	0.149	8	+26	16.322	164	10.123	307
24.410	0.8123	0.44512	234	−202	0.157	9	+64	16.158	168	10.430	304
25.407	0.8151	+0.44746	236	+ 13	+0.166	9	+86	+15.990	173	+10.734	301
26.404	0.8178	0.44982	239	+243	0.175	10	+87	15.817	178	11.035	298
27.402	0.8205	0.45221	242	+430	0.185	10	+68	15.639	183	11.333	294
28.399	0.8233	0.45463	245	+545	0.195	10	+33	15.456	188	11.627	291
29.396	0.8260	0.45708	249	+563	0.205	10	− 7	15.268	193	11.918	288
30.394	0.8287	0.45957	252	+489	0.215	10	−45	15.075	197	12.206	284
31.391	0.8314	+0.46209	255	+349	+0.225	11	−74	+14.878	202	+12.490	280
Nov. 1.388	0.8342	0.46464	258	+174	0.236	10	−87	14.676	207	12.770	277
2.385	0.8369	0.46722	261	− 14	0.246	11	−84	14.469	211	13.047	273
3.383	0.8396	0.46983	264	−178	0.257	10	−69	14.258	215	13.320	269
4.380	0.8424	0.47247	267	−304	0.267	11	−41	14.043	219	13.589	265
5.377	0.8451	0.47514	270	−381	0.278	11	− 9	13.824	224	13.854	261
6.374	0.8478	+0.47784	273	−401	+0.289	11	+24	+13.600	228	+14.115	257
7.372	0.8506	0.48057	276	−359	0.300	11	+57	13.372	233	14.372	253
8.369	0.8533	0.48333	280	−260	0.311	11	+82	13.139	237	14.625	248
9.366	0.8560	0.48613	282	−121	0.322	11	+94	12.902	241	14.873	244
10.364	0.8587	0.48895	286	+ 33	0.333	11	+87	12.661	245	15.117	239
11.361	0.8615	0.49181	289	+170	0.344	11	+65	12.416	249	15.356	234
12.358	0.8642	+0.49470	293	+255	+0.355	11	+28	+12.167	252	+15.590	230
13.355	0.8669	0.49763	296	+258	0.366	11	−16	11.915	256	15.820	225
14.353	0.8697	0.50059	299	+174	0.377	10	−58	11.659	260	16.045	221
15.350	0.8724	0.50358	302	+ 17	0.387	10	−87	11.399	264	16.266	216
16.347	0.8751	0.50660	304	−170	0.397	10	−95	11.135	267	16.482	211
17.344	0.8779	0.50964	308	−340	0.407	10	−78	10.868	271	16.693	205
18.342	0.8806	+0.51272	311	−440	+0.417	9	−42	+10.597	274	+16.898	200
19.339	0.8833	0.51583	314	−437	0.426	9	+ 3	10.323	277	17.098	195
20.336	0.8861	0.51897	318	−323	0.435	9	+49	10.046	280	17.293	190
21.333	0.8888	0.52215	320	−124	0.444	9	+80	9.766	283	17.483	185
22.331	0.8915	0.52535	323	+119	0.453	8	+93	9.483	286	17.668	179
23.328	0.8942	+0.52858		+345	+0.461		+80	+ 9.197		+17.847	

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Welt-Zeit	t	A		A′	B		B′	C		D	
1945	a			in 0.00001	″		in 0.″001	″		″	
Nov. 23.328	0.8942	+0.52858	326	+345	+0.461	8	+80	+9.197	290	+17.847	173
24.325	0.8970	0.53184	328	+511	0.469	8	+50	8.907	293	18.020	168
25.323	0.8997	0.53512	331	+581	0.477	7	+ 9	8.614	295	18.188	163
26.320	0.9024	0.53843	334	+549	0.484	7	−33	8.319	298	18.351	157
27.317	0.9052	0.54177	336	+435	0.491	6	−66	8.021	301	18.508	151
28.314	0.9079	0.54513	339	+261	0.497	6	−85	7.720	303	18.659	145
29.312	0.9106	+0.54852	341	+ 72	+0.503	5	−90	+7.417	305	+18.804	140
30.309	0.9134	0.55193	343	−108	0.508	5	−78	7.112	308	18.944	134
Dez. 1.306	0.9161	0.55536	345	−253	0.513	4	−55	6.804	310	19.078	128
2.303	0.9188	0.55881	348	−346	0.517	4	−21	6.494	312	19.206	122
3.301	0.9215	0.56229	350	−380	0.521	3	+15	6.182	314	19.328	116
4.298	0.9243	0.56579	351	−355	0.524	3	+47	5.868	316	19.444	110
5.295	0.9270	+0.56930	353	−272	+0.527	2	+73	+5.552	318	+19.554	104
6.293	0.9297	0.57283	355	−144	0.529	2	+89	5.234	320	19.658	98
7.290	0.9325	0.57638	357	+ 4	0.531	1	+91	4.914	321	19.756	92
8.287	0.9352	0.57995	358	+147	0.532	0	+74	4.593	323	19.848	85
9.284	0.9379	0.58353	360	+248	0.532	0	+43	4.270	324	19.933	79
10.282	0.9407	0.58713	361	+280	0.532	1	+ 1	3.946	325	20.012	73
11.279	0.9434	+0.59074	363	+227	+0.531	2	−42	+3.621	326	+20.085	67
12.276	0.9461	0.59437	364	+ 93	0.529	2	−77	3.295	328	20.152	60
13.273	0.9489	0.59801	365	− 92	0.527	3	−92	2.967	329	20.212	54
14.271	0.9516	0.60166	366	−283	0.524	3	−89	2.638	330	20.266	48
15.268	0.9543	0.60532	366	−425	0.521	4	−60	2.308	331	20.314	41
16.265	0.9570	0.60898	367	−477	0.517	5	−16	1.977	331	20.355	35
17.262	0.9598	+0.61265	368	−419	+0.512	6	+30	+1.646	332	+20.390	29
18.260	0.9625	0.61633	368	−258	0.506	6	+70	1.314	332	20.419	22
19.257	0.9652	0.62001	368	− 30	0.500	7	+89	0.982	332	20.441	16
20.254	0.9680	0.62369	369	+215	0.493	8	+89	0.650	333	20.457	9
21.252	0.9707	0.62738	369	+420	0.485	9	+66	+0.317	333	20.466	3
22.249	0.9734	0.63107	369	+543	0.476	9	+28	−0.016	332	20.469	−4
23.246	0.9762	+0.63476	369	+566	+0.467	10	−14	−0.348	333	+20.465	10
24.243	0.9789	0.63845	369	+490	0.457	11	−53	0.681	333	20.455	16
25.241	0.9816	0.64214	368	+341	0.446	11	−81	1.014	332	20.439	22
26.238	0.9843	0.64582	368	+153	0.435	12	−93	1.346	332	20.417	29
27.235	0.9871	0.64950	367	− 39	0.423	13	−86	1.678	332	20.388	36
28.232	0.9898	0.65317	367	−203	0.410	13	−65	2.010	331	20.352	42
29.230	0.9925	+0.65684	366	−318	+0.397	14	−34	−2.341	330	+20.310	49
30.227	0.9953	0.66050	365	−374	0.383	15	0	2.671	329	20.261	54
31.224	0.9980	0.66415	364	−367	0.368	15	+36	3.000	329	20.207	61
32.221	1.0007	0.66779	363	−297	0.353	16	+68	3.329	327	20.146	68
33.219	1.0035	0.67142	361	−177	0.337	17	+87	3.656	326	20.078	74
34.216	1.0062	+0.67503		− 31	+0.320		+93	−3.982		+20.004	

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für 12^h Sternzeit Greenwich

Welt-Zeit	t	log A	log B	log C	log D	E
1945	s					s
Jan. 0.2	—0.0013	9.50438$_n$	0.53618	0.48855$_n$	1.30518	—0.0025
10.2	+0.0260	9.45446$_n$	0.51282	0.79941$_n$	1.28517	25
20.2	0.0533	9.40159$_n$	0.48058	0.96946$_n$	1.24966	25
30.1	0.0806	9.34680$_n$	0.44028	1.08084$_n$	1.19596	25
Febr. 9.1	0.1079	9.29108$_n$	0.39375	1.15800$_n$	1.11906	26
19.1	0.1352	9.23507$_n$	0.34439	1.21157$_n$	1.00886	—0.0026
März 1.1	0.1625	9.17855$_n$	0.29667	1.24697$_n$	0.84267	26
11.0	0.1898	9.12001$_n$	0.25624	1.26717$_n$	0.54630	26
21.0	0.2171	9.05614$_n$	0.22789	1.27367$_n$	8.04139$_n$	26
31.0	0.2444	8.98096$_n$	0.21564	1.26715$_n$	0.54654$_n$	26
April 10.0	0.2717	8.88395$_n$	0.21906	1.24741$_n$	0.83935$_n$	—0.0026
19.9	0.2990	8.74429$_n$	0.23452	1.21346$_n$	1.00329$_n$	26
29.9	0.3263	8.50447$_n$	0.25672	1.16301$_n$	1.11180$_n$	26
Mai 9.9	0.3536	7.75051$_n$	0.28035	1.09191$_n$	1.18792$_n$	26
19.8	0.3809	8.36959	0.30038	0.99216$_n$	1.24175$_n$	26
29.8	0.4082	8.73957	0.31366	0.84634$_n$	1.27841$_n$	—0.0026
Juni 8.8	0.4355	8.94547	0.31681	0.60563$_n$	1.30086$_n$	26
18.8	0.4628	9.08838	0.30835	9.97405$_n$	1.31057$_n$	26
28.7	0.4901	9.19640	0.28668	0.33666	1.30818$_n$	26
Juli 8.7	0.5174	9.28137	0.25018	0.71792	1.29363$_n$	26
18.7	0.5447	9.34959	0.19700	0.91014	1.26604$_n$	—0.0026
28.7	0.5721	9.40504	0.12418	1.03423	1.22347$_n$	26
Aug. 7.6	0.5994	9.45039	0.02898	1.12107	1.16268$_n$	26
17.6	0.6267	9.48765	9.90687	1.18330	1.07715$_n$	27
27.6	0.6540	9.51863	9.75051	1.22701	0.95424$_n$	27
Sept. 6.5	0.6813	9.54490	9.55145	1.25556	0.76268$_n$	—0.0027
16.5	0.7086	9.56794	9.30103	1.27068	0.38003$_n$	27
26.5	0.7359	9.58913	9.02531	1.27307	0.03383	27
Okt. 6.5	0.7632	9.60973	8.86923	1.26269	0.65763	27
16.4	0.7905	9.63080	9.00432	1.23865	0.89757	27
26.4	0.8178	9.65304	9.24304	1.19912	1.04277	—0.0027
Nov. 5.4	0.8451	9.67682	9.44404	1.14063	1.14158	27
15.4	0.8724	9.70207	9.58771	1.05687	1.21128	27
25.3	0.8997	9.72845	9.67852	0.93520	1.25978	27
Dez. 5.3	0.9270	9.75534	9.72181	0.74445	1.29124	27
15.3	0.9543	9.78199	9.71684	0.36324	1.30780	—0.0027
25.2	0.9816	9.80763	9.64933	0.00604$_n$	1.31046	27
35.2	1.0089	9.83163	9.48144	0.63417$_n$	1.29938	—0.0027

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1945.0$

t_1	$m^s(t_2-t_1)$	$n^s(t_2-t_1)$	$n''(t_2-t_1)$	log $n^s(t_2-t_1)$	log $n''(t_2-t_1)$
	m s	s	"		
1755	+9 43.567	+253.981	+3809.71	2.404801	3.580892
1790	7 56.119	207.179	3107.69	2.316346	3.492438
1800	7 25.415	193.809	2907.13	2.287374	3.463465
1810	6 54.709	180.439	2706.58	2.256331	3.432421
1825	6 8.647	160.385	2405.77	2.205164	3.381254
1830	+5 53.292	+153.701	+2305.51	2.186677	3.362767
1835	5 37.937	147.016	2205.25	2.167364	3.343458
1840	5 22.581	140.332	2104.98	2.147157	3.323248
1845	5 7.224	133.649	2004.73	2.125966	3.302056
1850	4 51.868	126.965	1904.47	2.103684	3.279774
1855	+4 36.510	+120.281	+1804.22	2.080197	3.256290
1860	4 21.153	113.598	1703.96	2.055370	3.231460
1865	4 5.794	106.914	1603.71	2.029034	3.205126
1870	3 50.436	100.231	1503.46	2.001002	3.177092
1875	3 35.077	93.548	1403.22	1.971035	3.147126
1880	+3 19.717	+ 86.865	+1302.98	1.93885	3.114937
1885	3 4.357	80.182	1202.73	1.90408	3.080168
1890	2 48.997	73.500	1102.49	1.86629	3.042375
1895	2 33.636	66.817	1002.26	1.82489	3.000980
1900	2 18.274	60.135	902.02	1.77913	2.955216
1905	+2 2.912	+ 53.453	+ 801.79	1.72797	2.90406
1910	1 47.550	46.771	701.56	1.66998	2.84606
1915	1 32.187	40.089	601.33	1.60303	2.77911
1920	1 16.824	33.407	501.10	1.52384	2.69992
1925	1 1.460	26.725	400.88	1.42692	2.60301
1930	+0 46.096	+ 20.044	+ 300.65	1.30198	2.47806
1935	30.731	13.362	200.43	1.12587	2.30196
1940	+ 15.366	+ 6.681	+ 100.22	0.82484	2.00095
1945	0.000	0.000	0.00	—	—
1950	— 15.366	— 6.681	— 100.21	0.82484*n*	2.00091*n*

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1945.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2 - t_1) + [n^s(t_2 - t_1)] \sin \alpha' \operatorname{tg} \delta'$$
$$\delta_2 = \delta_1 + [n''(t_2 - t_1)] \cos \alpha'$$

Übertragung mittlerer Polsternörter

von dem Äquinoktium t_1 auf $t_2 = 1945.0$

t_1	$90° - (N)$		$(m) + (N) - 90°$		(n)
	′ ″	m s	′ ″	m s	′ ″
1755	+72 55.45	+4 51.697	+72 58.31	+4 51.887	+63 29.42
1790	59 30.00	3 58.000	59 31.91	3 58.127	51 47.53
1800	55 39.83	3 42.655	55 41.50	3 42.766	48 27.00
1810	51 49.64	3 27.309	51 51.08	3 27.405	45 6.48
1825	46 4.31	3 4.287	46 5.45	3 4.363	40 5.70
1830	+44 9.19	+2 56.613	+44 10.24	+2 56.683	+38 25.44
1835	42 14.07	2 48.938	42 15.03	2 49.002	36 45.19
1840	40 18.94	2 41.263	40 19.81	2 41.321	35 4.94
1845	38 23.80	2 33.587	38 24.59	2 33.640	33 24.68
1850	36 28.66	2 25.911	36 29.38	2 25.958	31 44.43
1855	+34 33.52	+2 18.235	+34 34.16	+2 18.277	+30 4.18
1860	32 38.37	2 10.558	32 38.94	2 10.596	28 23.94
1865	30 43.21	2 2.881	30 43.72	2 2.915	26 43.69
1870	28 48.05	1 55.203	28 48.50	1 55.233	25 3.45
1875	26 52.89	1 47.526	26 53.27	1 47.552	23 23.20
1880	+24 57.71	+1 39.848	+24 58.05	+1 39.870	+21 42.96
1885	23 2.54	1 32.169	23 2.82	1 32.188	20 2.72
1890	21 7.36	1 24.490	21 7.59	1 24.506	18 22.49
1895	19 12.17	1 16.811	19 12.37	1 16.824	16 42.25
1900	17 16.98	1 9.132	17 17.14	1 9.142	15 2.02
1905	+15 21.78	+1 1.452	+15 21.90	+1 1.460	+13 21.79
1910	13 26.57	0 53.772	13 26.67	0 53.778	11 41.56
1915	11 31.37	0 46.091	11 31.44	0 46.096	10 1.33
1920	9 36.15	0 38.410	9 36.20	0 38.413	8 21.10
1925	7 40.93	0 30.729	7 40.96	0 30.731	6 40.88
1930	+ 5 45.71	+0 23.047	+ 5 45.72	+0 23.048	+ 5 0.66
1935	3 50.48	0 15.365	3 50.49	0 15.366	3 20.43
1940	+ 1 55.24	+0 7.683	+ 1 55.24	+0 7.683	+ 1 40.22
1945	0 0.00	0 0.000	0 0.00	0 0.000	0 0.00
1950	− 1 55.25	−0 7.683	− 1 55.25	−0 7.683	− 1 40.21

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1945.0$, so hat man

zur Reduktion von dem Äquinoktium t_1 auf t_2:

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p_1 = \left(\operatorname{tang} \delta_1 + \cos a_1 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m) + (N) - 90°] + \Delta a_1$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2} \Delta a_1) \sec \tfrac{1}{2} \Delta a_1 \operatorname{tang} \tfrac{1}{2}\, (n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1:

$$a_2 = \alpha_2 - [(m) + (N) - 90°]$$

$$p_2 = -\left(\operatorname{tang} \delta_2 - \cos a_2 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90° - (N)] + \Delta a_2$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_1 - \delta_2) = -\cos \left(a_2 + \tfrac{1}{2} \Delta a_2\right) \sec \tfrac{1}{2} \Delta a_2 \operatorname{tang} \tfrac{1}{2}\, (n)$$

Reduktion von Koordinatendifferenzen scheinbarer Örter auf Differenzen mittlerer Örter für den Jahresanfang.

Sind $\Delta\alpha$ und $\Delta\delta$ die gemessenen Koordinatendifferenzen der scheinbaren Örter im Sinne Objekt minus Stern, $d\Delta\alpha$ und $d\Delta\delta$ die an ihnen anzubringenden Korrektionen, um Koordinatendifferenzen zu erhalten, die sich auf das mittlere Äquinoktium des Jahresanfangs beziehen, so wird

$$d\Delta\alpha = (d\Delta\alpha)_1 + (d\Delta\alpha)_2$$
$$d\Delta\delta = (d\Delta\delta)_1 + (d\Delta\delta)_2,$$

wobei

$$(d\Delta\alpha)_1 = -j\cos(G+\alpha)\frac{\mathrm{tg}\,\delta}{15}\,\Delta\alpha^{\mathrm{m}} - j\sin(G+\alpha)\frac{\sec^2\delta}{225}\,\Delta\delta'$$

$$(d\Delta\alpha)_2 = -k\cos(H+\alpha)\frac{\sec\delta}{15}\,\Delta\alpha^{\mathrm{m}} - k\sin(H+\alpha)\frac{\mathrm{tg}\,\delta\sec\delta}{225}\,\Delta\delta'$$

$$(d\Delta\delta)_1 = j\sin(G+\alpha)\,\Delta\alpha^{\mathrm{m}}$$

$$(d\Delta\delta)_2 = k\sin(H+\alpha)\sin\delta\,\Delta\alpha^{\mathrm{m}} - k\cos(H+\alpha)\frac{\cos\delta}{15}\,\Delta\delta'$$
$$+ [0.0003\,i\sin\delta\,\Delta\delta']$$

Hierin bezeichnen $(d\Delta\alpha)_1$ und $(d\Delta\delta)_1$ den Einfluß der Präzession und Nutation, $(d\Delta\alpha)_2$ und $(d\Delta\delta)_2$ den Einfluß der Aberration.

Die Größen G, H, j, k, i sind auf S. 252*—269* zu finden. Die Faktoren $\frac{1}{15}\,\mathrm{tg}\,\delta$, $\frac{1}{225}\sec^2\delta$, $\frac{1}{15}\sec\delta$, $\frac{1}{225}\,\mathrm{tg}\,\delta\sec\delta$, $\sin\delta$, $\frac{1}{15}\cos\delta$ entnehme man der Zusammenstellung auf S. 283*. Die numerischen Werte der Funktionen sinus und cosinus sind auf S. 284* enthalten. $\Delta\alpha^{\mathrm{m}}$ bedeutet die in Zeitminuten ausgedrückte gemessene Rektaszensionsdifferenz, $\Delta\delta'$ ist die in Bogenminuten ausgedrückte gemessene Deklinationsdifferenz. Die Größen $d\Delta\alpha$ und $d\Delta\delta$ ergeben sich in Zeit- bzw. Bogensekunden. Das in eckige Klammern gesetzte Glied $0.0003\,i\sin\delta\,\Delta\delta'$ in der Formel für $(d\Delta\delta)_2$ beträgt für $\Delta\delta' = 10'$ im Maximum $0\overset{''}{.}02$ und kann daher in den meisten Fällen unberücksichtigt bleiben.

δ	$\frac{1}{15}$ tg δ	$\frac{1}{225}$ sec² δ	$\frac{1}{15}$ sec δ	$\frac{1}{225}$ tg δ sec δ	sin δ	$\frac{1}{15}$ cos δ	tg δ	$\frac{1}{15}$ sec² δ	δ
0°	0.000	0.004	0.067	0.000	0.00	0.07	0.00	0.07	0°
5	0.006	0.004	0.067	0.000	0.09	0.07	0.09	0.07	5
10	0.012	0.005	0.068	0.001	0.17	0.07	0.18	0.07	10
15	0.018	0.005	0.069	0.001	0.26	0.06	0.27	0.07	15
20	0.024	0.005	0.071	0.002	0.34	0.06	0.36	0.08	20
25	0.031	0.005	0.074	0.002	0.42	0.06	0.47	0.08	25
30	0.038	0.006	0.077	0.003	0.50	0.06	0.58	0.09	30
35	0.047	0.007	0.081	0.004	0.57	0.05	0.70	0.10	35
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
42	0.060	0.008	0.090	0.005	0.67	0.05	0.90	0.12	42
44	0.064	0.009	0.093	0.006	0.69	0.05	0.97	0.13	44
46	0.069	0.009	0.096	0.007	0.72	0.05	1.04	0.14	46
48	0.074	0.010	0.100	0.007	0.74	0.04	1.11	0.15	48
50	0.079	0.011	0.104	0.008	0.77	0.04	1.19	0.16	50
52	0.085	0.012	0.108	0.009	0.79	0.04	1.28	0.18	52
54	0.092	0.013	0.113	0.010	0.81	0.04	1.38	0.19	54
56	0.099	0.014	0.119	0.012	0.83	0.04	1.48	0.21	56
58	0.107	0.016	0.126	0.013	0.85	0.04	1.60	0.24	58
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
61	0.120	0.019	0.138	0.017	0.87	0.03	1.80	0.28	61
62	0.125	0.020	0.142	0.018	0.88	0.03	1.88	0.30	62
63	0.131	0.022	0.147	0.019	0.89	0.03	1.96	0.32	63
64	0.137	0.023	0.152	0.021	0.90	0.03	2.05	0.35	64
65	0.143	0.025	0.158	0.023	0.91	0.03	2.14	0.37	65
66	0.150	0.027	0.164	0.025	0.91	0.03	2.25	0.40	66
67	0.157	0.029	0.171	0.027	0.92	0.03	2.36	0.44	67
68	0.165	0.032	0.178	0.029	0.93	0.02	2.48	0.48	68
69	0.174	0.035	0.186	0.032	0.93	0.02	2.61	0.52	69
70	0.183	0.038	0.195	0.036	0.94	0.02	2.75	0.57	70
71	0.194	0.042	0.205	0.040	0.95	0.02	2.90	0.63	71
72	0.205	0.047	0.216	0.044	0.95	0.02	3.08	0.70	72
73	0.218	0.052	0.228	0.050	0.96	0.02	3.27	0.78	73
74	0.232	0.058	0.242	0.056	0.96	0.02	3.49	0.88	74
75	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75
75.0°	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75.0°
75.5	0.258	0.071	0.266	0.069	0.97	0.02	3.87	1.06	75.5
76.0	0.267	0.076	0.276	0.074	0.97	0.02	4.01	1.14	76.0
76.5	0.278	0.082	0.286	0.079	0.97	0.02	4.17	1.22	76.5
77.0	0.289	0.088	0.296	0.086	0.97	0.01	4.33	1.32	77.0
77.5	0.301	0.095	0.308	0.093	0.98	0.01	4.51	1.42	77.5
78.0	0.314	0.103	0.321	0.101	0.98	0.01	4.70	1.54	78.0
78.5	0.328	0.112	0.334	0.110	0.98	0.01	4.92	1.68	78.5
79.0	0.343	0.122	0.349	0.120	0.98	0.01	5.14	1.83	79.0
79.5	0.360	0.134	0.366	0.132	0.98	0.01	5.40	2.01	79.5
80.0	0.378	0.147	0.384	0.145	0.98	0.01	5.67	2.21	80.0

Sinus

	0^h	1^h	2^h	3^h	4^h	5^h	
0^m	0.000	0.259	0.500	0.707	0.866	0.966	60
1	0.004	0.263	0.504	0.710	0.868	0.967	59
2	0.009	0.267	0.508	0.713	0.870	0.968	58
3	0.013	0.271	0.511	0.716	0.872	0.969	57
4	0.017	0.276	0.515	0.719	0.875	0.970	56
5	0.022	0.280	0.519	0.722	0.877	0.971	55
6	0.026	0.284	0.522	0.725	0.879	0.972	54
7	0.031	0.288	0.526	0.728	0.881	0.973	53
8	0.035	0.292	0.530	0.731	0.883	0.974	52
9	0.039	0.297	0.534	0.734	0.885	0.975	51
10	0.044	0.301	0.537	0.737	0.887	0.976	50
11	0.048	0.305	0.541	0.740	0.889	0.977	49
12	0.052	0.309	0.545	0.743	0.891	0.978	48
13	0.057	0.313	0.548	0.746	0.893	0.979	47
14	0.061	0.317	0.552	0.749	0.895	0.980	46
15	0.065	0.321	0.556	0.752	0.897	0.981	45
16	0.070	0.326	0.559	0.755	0.899	0.982	44
17	0.074	0.330	0.563	0.758	0.901	0.982	43
18	0.078	0.334	0.566	0.760	0.903	0.983	42
19	0.083	0.338	0.570	0.763	0.904	0.984	41
20	0.087	0.342	0.574	0.766	0.906	0.985	40
21	0.092	0.346	0.577	0.769	0.908	0.986	39
22	0.096	0.350	0.581	0.772	0.910	0.986	38
23	0.100	0.354	0.584	0.774	0.912	0.987	37
24	0.105	0.358	0.588	0.777	0.914	0.988	36
25	0.109	0.362	0.591	0.780	0.915	0.988	35
26	0.113	0.367	0.595	0.783	0.917	0.989	34
27	0.118	0.371	0.598	0.785	0.919	0.990	33
28	0.122	0.375	0.602	0.788	0.921	0.990	32
29	0.126	0.379	0.605	0.791	0.922	0.991	31
30	0.131	0.383	0.609	0.793	0.924	0.991	30
31	0.135	0.387	0.612	0.796	0.926	0.992	29
32	0.139	0.391	0.616	0.799	0.927	0.993	28
33	0.143	0.395	0.619	0.801	0.929	0.993	27
34	0.148	0.399	0.623	0.804	0.930	0.994	26
35	0.152	0.403	0.626	0.806	0.932	0.994	25
36	0.156	0.407	0.629	0.809	0.934	0.995	24
37	0.161	0.411	0.633	0.812	0.935	0.995	23
38	0.165	0.415	0.636	0.814	0.937	0.995	22
39	0.169	0.419	0.639	0.817	0.938	0.996	21
40	0.174	0.423	0.643	0.819	0.940	0.996	20
41	0.178	0.427	0.646	0.822	0.941	0.997	19
42	0.182	0.431	0.649	0.824	0.943	0.997	18
43	0.187	0.434	0.653	0.827	0.944	0.997	17
44	0.191	0.438	0.656	0.829	0.946	0.998	16
45	0.195	0.442	0.659	0.831	0.947	0.998	15
46	0.199	0.446	0.663	0.834	0.948	0.998	14
47	0.204	0.450	0.666	0.836	0.950	0.998	13
48	0.208	0.454	0.669	0.839	0.951	0.999	12
49	0.212	0.458	0.672	0.841	0.952	0.999	11
50	0.216	0.462	0.676	0.843	0.954	0.999	10
51	0.221	0.466	0.679	0.846	0.955	0.999	9
52	0.225	0.469	0.682	0.848	0.956	0.999	8
53	0.229	0.473	0.685	0.850	0.958	1.000	7
54	0.233	0.477	0.688	0.853	0.959	1.000	6
55	0.238	0.481	0.692	0.855	0.960	1.000	5
56	0.242	0.485	0.695	0.857	0.961	1.000	4
57	0.246	0.489	0.698	0.859	0.962	1.000	3
58	0.250	0.492	0.701	0.862	0.964	1.000	2
59	0.255	0.496	0.704	0.864	0.965	1.000	1
60	0.259	0.500	0.707	0.866	0.966	1.000	0^m
	5^h	4^h	3^h	2^h	1^h	0^h	

Cosinus

Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1945.0 auf das Normaläquinoktium 1950.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
h m				h m	h m				h m
0 0	+0.0292+	+0.0000−	−0.000+	24 0	6 0	−0.0000−	+0.0292−	−0.437+	18 0
10	0291	0013	019	50	10	0013	0291	437	50
20	0290	0025	038	40	20	0025	0290	436	40
30	0289	0038	057	30	30	0038	0289	434	30
40	0287	0051	076	20	40	0051	0287	431	20
50	0285	0063	095	10	50	0063	0285	427	10
1 0	+0.0282+	+0.0075−	−0.113+	23 0	7 0	−0.0075−	+0.0282−	−0.422+	17 0
10	0278	0088	132	50	10	0088	0278	417	50
20	0274	0100	150	40	20	0100	0274	411	40
30	0269	0112	167	30	30	0112	0269	404	30
40	0264	0123	185	20	40	0123	0264	396	20
50	0259	0135	202	10	50	0135	0259	388	10
2 0	+0.0252+	+0.0146−	−0.219+	22 0	8 0	−0.0146−	+0.0252−	−0.379+	16 0
10	0246	0157	235	50	10	0157	0246	369	50
20	0239	0167	251	40	20	0167	0239	358	40
30	0231	0177	266	30	30	0177	0231	347	30
40	0223	0187	281	20	40	0187	0223	335	20
50	0215	0197	295	10	50	0197	0215	322	10
3 0	+0.0206+	+0.0206−	−0.309+	21 0	9 0	−0.0206−	+0.0206−	−0.309+	15 0
10	0197	0215	322	50	10	0215	0197	295	50
20	0187	0223	335	40	20	0223	0187	281	40
30	0177	0231	347	30	30	0231	0177	266	30
40	0167	0239	358	20	40	0239	0167	251	20
50	0157	0246	369	10	50	0246	0157	235	10
4 0	+0.0146+	+0.0252−	−0.379+	20 0	10 0	−0.0252−	+0.0146−	−0.219+	14 0
10	0135	0259	388	50	10	0259	0135	202	50
20	0123	0264	396	40	20	0264	0123	185	40
30	0112	0269	404	30	30	0269	0112	167	30
40	0100	0274	411	20	40	0274	0100	150	20
50	0088	0278	417	10	50	0278	0088	132	10
5 0	+0.0075+	+0.0282−	−0.422+	19 0	11 0	−0.0282−	+0.0075−	−0.113+	13 0
10	0063	0285	427	50	10	0285	0063	095	50
20	0051	0287	431	40	20	0287	0051	076	40
30	0038	0289	434	30	30	0289	0038	057	30
40	0025	0290	436	20	40	0290	0025	038	20
50	0013	0291	437	10	50	0291	0013	019	10
6 0	+0.0000+	+0.0292−	−0.437+	18 0	12 0	−0.0292−	+0.0000−	−0.000+	12 0

Für α zwischen 12^h und 24^h gelten die Vorzeichen zur Rechten.

$$\Delta\alpha_{1950.0} = \Delta\alpha_{1945.0} + a_1 \cdot \operatorname{tg}\delta \cdot \Delta\alpha^m + a_2 \cdot \frac{1}{15}\sec^2\delta \cdot \Delta\delta';$$

$$\Delta\delta_{1950.0} = \Delta\delta_{1945.0} + d_1 \cdot \Delta\alpha^m$$

$\Delta\alpha^m$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ ist die Deklinationsdifferenz in Bogenminuten.

Die Werte von $\operatorname{tg}\delta$ und $\frac{1}{15}\sec^2\delta$ sind auf S. 283* enthalten.

Reduktionsgrößen 1945

Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium

0^h Welt-Zeit	f	log g	G	0^h Welt-Zeit	f	log g	G
1945	s		h m s	1945	s		h m s
Jan. 0	−16.353	2.02812	11 52 36	Juni 29	−14.883	1.98707	11 55 26
5	16.299	2.02667	11 52 46	Juli 4	14.830	1.98551	11 55 36
10	16.246	2.02525	11 52 57	9	14.778	1.98398	11 55 47
15	16.195	2.02386	11 53 10	14	14.728	1.98249	11 56 0
20	16.145	2.02252	11 53 25	19	14.678	1.98102	11 56 15
25	−16.098	2.02122	11 53 41	24	−14.631	1.97959	11 56 31
30	16.053	2.02000	11 53 58	29	14.585	1.97822	11 56 49
Febr. 4	16.010	2.01884	11 54 15	Aug. 3	14.541	1.97690	11 57 7
9	15.970	2.01773	11 54 33	8	14.499	1.97565	11 57 26
14	15.933	2.01670	11 54 50	13	14.459	1.97444	11 57 45
19	−15.898	2.01572	11 55 6	18	−14.421	1.97331	11 58 4
24	15.864	2.01480	11 55 22	23	14.386	1.97222	11 58 22
März 1	15.833	2.01392	11 55 36	28	14.352	1.97119	11 58 39
6	15.803	2.01310	11 55 48	Sept. 2	14.319	1.97022	11 58 55
11	15.774	2.01231	11 55 59	7	14.288	1.96927	11 59 10
16	−15.746	2.01152	11 56 7	12	−14.259	1.96836	11 59 21
21	15.718	2.01077	11 56 13	17	14.230	1.96748	11 59 31
26	15.691	2.01000	11 56 17	22	14.201	1.96660	11 59 39
31	15.663	2.00922	11 56 19	27	14.173	1.96573	11 59 45
April 5	15.634	2.00842	11 56 18	Okt. 2	14.144	1.96485	11 59 48
10	−15.604	2.00758	11 56 16	7	−14.114	1.96394	11 59 49
15	15.572	2.00670	11 56 12	12	14.084	1.96300	11 59 48
20	15.539	2.00577	11 56 7	17	14.052	1.96201	11 59 44
25	15.504	2.00479	11 56 1	22	14.018	1.96097	11 59 39
30	15.466	2.00375	11 55 54	27	13.982	1.95985	11 59 33
Mai 5	−15.427	2.00263	11 55 46	Nov. 1	−13.944	1.95867	11 59 25
10	15.385	2.00148	11 55 38	6	13.904	1.95740	11 59 17
15	15.341	2.00024	11 55 31	11	13.861	1.95606	11 59 8
20	15.295	1.99894	11 55 24	16	13.815	1.95463	11 59 0
25	15.248	1.99758	11 55 19	21	13.767	1.95314	11 58 53
30	−15.198	1.99617	11 55 14	26	−13.717	1.95156	11 58 46
Juni 4	15.148	1.99473	11 55 11	Dez. 1	13.665	1.94991	11 58 41
9	15.096	1.99323	11 55 11	6	13.612	1.94820	11 58 38
14	15.043	1.99172	11 55 11	11	13.556	1.94643	11 58 37
19	14.989	1.99017	11 55 14	16	13.500	1.94463	11 58 39
24	−14.936	1.98861	11 55 19	21	−13.444	1.94280	11 58 44
29	14.883	1.98707	11 55 26	26	13.387	1.94096	11 58 51
Juli 4	−14.830	1.98551	11 55 36	31	−13.330	1.93911	11 59 1

Die mit den vorstehend gegebenen Größen f, log g und G berechnete Reduktion vom mittleren Äquinoktium 1950.0 auf das wahre Äquinoktium der Epoche bedarf noch einer Verbesserung, die von dem Einfluß der Variatio saecularis herrührt und auf Seite 287* enthalten ist.

Es wird somit: Red. in $\alpha = f + \frac{1}{15} g \sin(G+\alpha) \operatorname{tg} \delta$ + Korr. nach S. 287*

Red. in $\delta = g \cos(G+\alpha)$ + Korr. nach S. 287*

Korrektion der Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium (s. S. 286*), berechnet für 1945.0, mit Hinzufügung ihrer einjährigen Änderung.

α	δ															
	+60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
	Für Rektaszension (in $0^{s}001$)															
0^h	+7	−3	+5	−2	+2	−1	+1	0	0	0	−2	+1	−4	+2	−6	+2
1	+9	−4	+6	−2	+3	−1	+1	−1	0	0	−1	0	−2	+1	−3	+1
2	+11	−4	+7	−3	+3	−1	+2	−1	0	0	0	0	−1	0	0	0
3	+10	−4	+6	−3	+3	−1	+2	−1	+1	0	0	0	0	0	+1	−1
4	+8	−3	+5	−2	+2	−1	+1	−1	+1	0	0	0	+1	0	+2	−1
5	+5	−2	+3	−1	+1	−1	+1	0	+1	0	0	0	+1	0	+2	−1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	−4	+2	−3	+1	−1	0	0	0	0	0	0	0	0	0	−1	0
8	−8	+3	−5	+2	−2	+1	−1	0	0	0	0	0	0	0	−1	+1
9	−10	+4	−6	+2	−3	+1	−1	0	0	0	0	0	0	0	−1	0
10	−10	+4	−6	+3	−3	+1	−1	0	0	0	+1	0	+1	−1	+1	0
11	−9	+4	−6	+2	−3	+1	−1	0	0	0	+2	−1	+3	−1	+4	−1
12	−6	+2	−4	+2	−2	+1	0	0	+1	0	+2	−1	+5	−2	+7	−3
13	−3	+1	−2	+1	−1	0	0	0	+1	−1	+3	−1	+6	−2	+9	−4
14	0	0	−1	0	0	0	0	0	+2	−1	+3	−1	+7	−3	+11	−4
15	+1	−1	0	0	0	0	+1	0	+2	−1	+3	−1	+6	−3	+10	−4
16	+2	−1	+1	0	0	0	+1	0	+1	−1	+2	−1	+5	−2	+8	−3
17	+2	−1	+1	0	0	0	+1	0	+1	0	+1	−1	+3	−1	+5	−2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	−1	0	0	0	0	0	0	0	0	0	−1	0	−3	+1	−4	+2
20	−1	+1	0	0	0	0	0	0	−1	0	−2	+1	−5	+2	−8	+3
21	−1	0	0	0	0	0	0	0	−1	0	−3	+1	−6	+2	−10	+4
22	+1	0	+1	−1	+1	0	0	0	−1	0	−3	+1	−6	+3	−10	+4
23	+3	−1	+3	−1	+2	−1	0	0	−1	0	−3	+1	−6	+2	−9	+4
24	+7	−3	+5	−2	+2	−1	+1	0	0	0	−2	+1	−4	+2	−6	+2
	Für Deklination (in 0.″01)															
0^h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	−2	+1	−2	+1	−2	+1	−2	+1	−2	+1	−1	+1	−1	+1	−1	+1
2	−4	+2	−4	+1	−3	+1	−3	+1	−3	+1	−3	+1	−2	+1	−2	+1
3	−6	+2	−5	+2	−5	+2	−4	+2	−4	+2	−3	+1	−3	+1	−2	+1
4	−8	+3	−7	+3	−6	+2	−5	+2	−5	+2	−4	+2	−3	+1	−2	+1
5	−9	+4	−8	+3	−7	+3	−6	+2	−5	+2	−4	+2	−3	+1	−2	+1
6	−10	+4	−9	+3	−7	+3	−6	+2	−5	+2	−4	+2	−3	+1	−1	+1
7	−9	+4	−8	+3	−7	+3	−6	+2	−5	+2	−4	+2	−3	+1	−1	+1
8	−8	+3	−7	+3	−6	+2	−5	+2	−4	+2	−4	+1	−3	+1	−2	+1
9	−6	+2	−5	+2	−5	+2	−4	+2	−4	+1	−3	+1	−2	+1	−2	+1
10	−4	+2	−3	+1	−3	+1	−3	+1	−3	+1	−2	+1	−2	+1	−2	+1
11	−2	+1	−2	+1	−1	+1	−1	+1	−1	+1	−1	+1	−1	+1	−1	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+1	−1	+1	−1	+1	−1	+2	−1	+2	−1	+2	−1	+2	−1	+2	−1
14	+2	−1	+2	−1	+3	−1	+3	−1	+3	−1	+3	−1	+3	−1	+4	−2
15	+2	−1	+3	−1	+3	−1	+4	−2	+4	−2	+5	−2	+5	−2	+6	−2
16	+2	−1	+3	−1	+4	−2	+5	−2	+5	−2	+6	−2	+7	−3	+8	−3
17	+2	−1	+3	−1	+4	−2	+5	−2	+6	−2	+7	−3	+8	−3	+9	−4
18	+1	−1	+3	−1	+4	−2	+5	−2	+6	−2	+7	−3	+9	−3	+10	−4
19	+1	−1	+3	−1	+4	−2	+5	−2	+6	−2	+7	−3	+8	−3	+9	−4
20	+2	−1	+3	−1	+4	−1	+4	−2	+5	−2	+6	−2	+7	−3	+8	−3
21	+2	−1	+2	−1	+3	−1	+4	−1	+4	−2	+5	−2	+5	−2	+6	−2
22	+2	−1	+2	−1	+2	−1	+3	−1	+3	−1	+3	−1	+3	−1	+4	−2
23	+1	0	+1	0	+1	−1	+1	−1	+1	−1	+1	−1	+2	−1	+2	−1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

α	0^h, 12^h		1^h, 13^h		2^h, 14^h		3^h, 15^h		4^h, 16^h		5^h, 17^h		α
m	+ A −	+ D −	+ A −	+ D −	+ A −	+ D −	+ A −	+ D −	+ A −	+ D −	+ A −	+ D −	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	0.004	100.21	1.733	96.78	3.344	86.76	4.727	70.82	5.788	50.06	6.454	25.88	0
1	0.033	100.21	1.761	96.67	3.369	86.54	4.748	70.51	5.803	49.68	6.462	25.46	1
2	0.062	100.21	1.789	96.56	3.394	86.32	4.768	70.20	5.817	49.30	6.469	25.04	2
3	0.091	100.21	1.817	96.44	3.419	86.10	4.788	69.89	5.831	48.92	6.476	24.62	3
4	0.120	100.20	1.845	96.32	3.444	85.87	4.808	69.57	5.845	48.54	6.483	24.19	4
5	0.150	100.19	1.873	96.20	3.469	85.65	4.828	69.26	5.859	48.16	6.490	23.77	5
6	0.179	100.18	1.901	96.08	3.494	85.42	4.848	68.94	5.873	47.78	6.497	23.35	6
7	0.208	100.17	1.929	95.95	3.519	85.19	4.868	68.62	5.887	47.39	6.504	22.92	7
8	0.237	100.15	1.957	95.82	3.543	84.96	4.888	68.30	5.901	47.00	6.511	22.49	8
9	0.266	100.13	1.985	95.69	3.568	84.73	4.908	67.98	5.915	46.62	6.518	22.07	9
10	0.295	100.11	2.013	95.56	3.593	84.50	4.928	67.66	5.928	46.23	6.524	21.64	10
11	0.324	100.09	2.041	95.43	3.618	84.26	4.948	67.34	5.941	45.84	6.530	21.21	11
12	0.353	100.07	2.068	95.29	3.642	84.02	4.967	67.01	5.954	45.45	6.536	20.78	12
13	0.383	100.05	2.096	95.16	3.667	83.78	4.987	66.69	5.967	45.06	6.542	20.36	13
14	0.412	100.03	2.124	95.02	3.691	83.54	5.007	66.36	5.980	44.67	6.548	19.93	14
15	0.441	100.00	2.152	94.88	3.715	83.30	5.026	66.03	5.993	44.28	6.554	19.50	15
16	0.470	99.97	2.179	94.74	3.739	83.05	5.045	65.70	6.006	43.88	6.559	19.07	16
17	0.499	99.94	2.207	94.60	3.763	82.81	5.064	65.37	6.019	43.49	6.565	18.64	17
18	0.528	99.91	2.235	94.45	3.787	82.56	5.083	65.04	6.032	43.10	6.570	18.21	18
19	0.557	99.87	2.262	94.30	3.811	82.31	5.102	64.71	6.045	42.70	6.575	17.78	19
20	0.586	99.83	2.289	94.15	3.835	82.06	5.120	64.37	6.057	42.30	6.580	17.35	20
21	0.615	99.79	2.317	94.00	3.859	81.81	5.139	64.04	6.069	41.91	6.585	16.92	21
22	0.644	99.75	2.344	93.85	3.883	81.56	5.158	63.70	6.081	41.51	6.590	16.49	22
23	0.673	99.71	2.371	93.70	3.907	81.30	5.176	63.36	6.093	41.11	6.595	16.06	23
24	0.702	99.66	2.398	93.54	3.930	81.04	5.194	63.02	6.105	40.71	6.599	15.62	24
25	0.731	99.61	2.425	93.38	3.954	80.78	5.213	62.68	6.117	40.31	6.604	15.19	25
26	0.760	99.56	2.452	93.22	3.978	80.52	5.231	62.34	6.129	39.91	6.608	14.76	26
27	0.789	99.51	2.479	93.06	4.001	80.26	5.249	62.00	6.140	39.51	6.612	14.33	27
28	0.818	99.46	2.506	92.90	4.024	80.00	5.267	61.65	6.151	39.11	6.616	13.89	28
29	0.847	99.41	2.533	92.74	4.047	79.74	5.285	61.31	6.163	38.71	6.620	13.46	29
30	0.876	99.35	2.560	92.57	4.070	79.48	5.303	60.97	6.174	38.31	6.624	13.03	30
31	0.905	99.29	2.587	92.40	4.093	79.21	5.321	60.62	6.185	37.90	6.628	12.60	31
32	0.934	99.23	2.614	92.23	4.116	78.94	5.338	60.27	6.196	37.49	6.632	12.16	32
33	0.963	99.17	2.641	92.06	4.139	78.67	5.356	59.92	6.207	37.09	6.636	11.73	33
34	0.992	99.11	2.668	91.89	4.162	78.40	5.373	59.57	6.218	36.68	6.639	11.30	34
35	1.021	99.04	2.695	91.71	4.185	78.13	5.390	59.22	6.228	36.27	6.642	10.86	35
36	1.049	98.97	2.721	91.53	4.207	77.85	5.407	58.86	6.238	35.86	6.645	10.42	36
37	1.078	98.90	2.748	91.35	4.230	77.57	5.424	58.51	6.249	35.45	6.648	9.99	37
38	1.107	98.83	2.775	91.17	4.253	77.29	5.441	58.15	6.259	35.04	6.651	9.56	38
39	1.136	98.76	2.801	90.99	4.275	77.01	5.458	57.79	6.269	34.63	6.654	9.12	39
40	1.164	98.68	2.827	90.80	4.297	76.73	5.475	57.43	6.279	34.22	6.656	8.68	40
41	1.193	98.60	2.854	90.62	4.320	76.45	5.492	57.07	6.289	33.81	6.659	8.25	41
42	1.222	98.52	2.880	90.43	4.342	76.17	5.509	56.71	6.299	33.40	6.661	7.81	42
43	1.250	98.44	2.906	90.24	4.364	75.89	5.525	56.35	6.309	32.99	6.663	7.37	43
44	1.278	98.36	2.932	90.05	4.386	75.60	5.541	55.99	6.318	32.57	6.665	6.93	44
45	1.306	98.28	2.958	89.86	4.408	75.31	5.557	55.63	6.328	32.16	6.667	6.49	45
46	1.335	98.19	2.984	89.67	4.430	75.02	5.573	55.27	6.337	31.75	6.669	6.05	46
47	1.364	98.10	3.010	89.47	4.452	74.73	5.589	54.90	6.346	31.34	6.671	5.62	47
48	1.393	98.01	3.036	89.27	4.473	74.44	5.605	54.53	6.355	30.92	6.672	5.19	48
49	1.422	97.92	3.062	89.07	4.495	74.15	5.621	54.17	6.364	30.51	6.674	4.76	49
50	1.451	97.83	3.088	88.87	4.517	73.85	5.637	53.80	6.373	30.09	6.675	4.32	50
51	1.479	97.73	3.114	88.67	4.538	73.55	5.653	53.43	6.382	29.67	6.676	3.88	51
52	1.507	97.63	3.140	88.46	4.559	73.25	5.668	53.06	6.390	29.25	6.677	3.44	52
53	1.536	97.53	3.166	88.25	4.581	72.95	5.684	52.69	6.399	28.83	6.678	3.01	53
54	1.564	97.43	3.192	88.04	4.602	72.65	5.699	52.32	6.407	28.41	6.679	2.57	54
55	1.592	97.33	3.217	87.83	4.623	72.35	5.714	51.95	6.415	27.99	6.680	2.13	55
56	1.620	97.22	3.242	87.62	4.644	72.05	5.729	51.57	6.423	27.57	6.680	1.69	56
57	1.649	97.11	3.268	87.41	4.665	71.75	5.744	51.20	6.431	27.15	6.681	1.26	57
58	1.677	97.00	3.294	87.20	4.686	71.44	5.759	50.82	6.439	26.73	6.681	0.82	58
59	1.705	96.89	3.319	86.98	4.707	71.13	5.774	50.44	6.447	26.31	6.681	0.38	59
60	1.733	96.78	3.344	86.76	4.727	70.82	5.788	50.06	6.454	25.88	6.681	—	60

α	6^h, 18^h		7^h, 19^h		8^h, 20^h		9^h, 21^h		10^h, 22^h		11^h, 23^h		α
m	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	6.681	0.06	6.452	25.99	5.784	50.16	4.721	70.90	3.337	86.82	1.726	96.81	0
1	6.681	0.49	6.445	26.42	5.770	50.54	4.701	71.21	3.312	87.04	1.698	96.92	1
2	6.681	0.92	6.437	26.84	5.755	50.92	4.680	71.52	3.287	87.26	1.670	97.03	2
3	6.681	1.36	6.429	27.26	5.740	51.29	4.659	71.83	3.262	87.47	1.642	97.14	3
4	6.680	1.80	6.421	27.68	5.725	51.66	4.638	72.13	3.236	87.68	1.613	97.25	4
5	6.680	2.24	6.413	28.10	5.710	52.04	4.617	72.43	3.211	87.89	1.585	97.36	5
6	6.679	2.68	6.405	28.52	5.695	52.41	4.596	72.73	3.185	88.10	1.557	97.46	6
7	6.678	3.12	6.397	28.94	5.680	52.78	4.575	73.03	3.159	88.31	1.528	97.56	7
8	6.677	3.55	6.388	29.35	5.664	53.15	4.554	73.33	3.133	88.51	1.499	97.66	8
9	6.676	3.99	6.380	29.77	5.649	53.52	4.533	73.63	3.108	88.72	1.471	97.76	9
10	6.675	4.43	6.371	30.19	5.633	53.89	4.512	73.93	3.082	88.92	1.443	97.86	10
11	6.674	4.87	6.362	30.61	5.617	54.26	4.490	74.22	3.056	89.12	1.414	97.95	11
12	6.672	5.30	6.353	31.02	5.601	54.63	4.468	74.51	3.030	89.32	1.385	98.04	12
13	6.670	5.74	6.344	31.44	5.585	55.00	4.446	74.80	3.004	89.52	1.357	98.13	13
14	6.668	6.18	6.335	31.86	5.569	55.37	4.424	75.09	2.978	89.72	1.329	98.22	14
15	6.666	6.62	6.326	32.27	5.553	55.73	4.402	75.38	2.952	89.91	1.300	98.30	15
16	6.664	7.05	6.316	32.68	5.537	56.09	4.380	75.67	2.925	90.10	1.271	98.38	16
17	6.662	7.49	6.307	33.10	5.521	56.45	4.358	75.96	2.899	90.29	1.243	98.46	17
18	6.660	7.93	6.297	33.51	5.505	56.81	4.336	76.24	2.873	90.48	1.214	98.54	18
19	6.658	8.36	6.287	33.92	5.488	57.17	4.314	76.52	2.847	90.67	1.185	98.62	19
20	6.655	8.79	6.277	34.33	5.471	57.53	4.292	76.80	2.820	90.85	1.156	98.70	20
21	6.653	9.23	6.267	34.74	5.454	57.89	4.270	77.08	2.794	91.03	1.128	98.78	21
22	6.650	9.67	6.257	35.15	5.437	58.25	4.248	77.36	2.768	91.21	1.099	98.85	22
23	6.647	10.10	6.247	35.56	5.420	58.60	4.225	77.64	2.741	91.39	1.070	98.92	23
24	6.644	10.53	6.236	35.97	5.403	58.95	4.202	77.91	2.714	91.57	1.041	98.99	24
25	6.641	10.97	6.226	36.38	5.386	59.30	4.179	78.19	2.688	91.75	1.013	99.06	25
26	6.638	11.41	6.215	36.79	5.369	59.65	4.156	78.46	2.661	91.93	0.984	99.13	26
27	6.635	11.84	6.204	37.19	5.351	60.00	4.133	78.73	2.634	92.10	0.955	99.19	27
28	6.631	12.27	6.193	37.59	5.333	60.35	4.110	79.00	2.607	92.27	0.926	99.25	28
29	6.627	12.71	6.182	38.00	5.316	60.70	4.087	79.27	2.580	92.44	0.898	99.31	29
30	6.623	13.14	6.171	38.41	5.298	61.05	4.064	79.54	2.553	92.61	0.869	99.37	30
31	6.619	13.57	6.160	38.81	5.280	61.40	4.041	79.81	2.526	92.78	0.840	99.42	31
32	6.615	14.00	6.148	39.21	5.262	61.74	4.018	80.07	2.499	92.94	0.811	99.47	32
33	6.611	14.44	6.137	39.61	5.244	62.09	3.995	80.33	2.472	93.10	0.782	99.52	33
34	6.607	14.87	6.126	40.01	5.226	62.43	3.972	80.59	2.445	93.26	0.753	99.57	34
35	6.603	15.30	6.114	40.41	5.208	62.77	3.948	80.85	2.418	93.42	0.724	99.62	35
36	6.598	15.73	6.102	40.81	5.190	63.11	3.924	81.11	2.391	93.58	0.695	99.67	36
37	6.594	16.17	6.090	41.21	5.172	63.45	3.901	81.37	2.364	93.74	0.666	99.72	37
38	6.589	16.60	6.078	41.61	5.154	63.79	3.877	81.62	2.337	93.89	0.637	99.76	38
39	6.584	17.03	6.066	42.01	5.135	64.13	3.853	81.87	2.310	94.04	0.608	99.80	39
40	6.579	17.46	6.053	42.40	5.116	64.46	3.829	82.12	2.282	94.19	0.579	99.84	40
41	6.574	17.89	6.041	42.80	5.097	64.80	3.805	82.37	2.255	94.34	0.550	99.88	41
42	6.569	18.32	6.029	43.20	5.078	65.13	3.781	82.62	2.228	94.49	0.521	99.91	42
43	6.563	18.75	6.016	43.59	5.059	65.46	3.757	82.87	2.200	94.63	0.492	99.94	43
44	6.557	19.18	6.003	43.98	5.040	65.79	3.733	83.11	2.172	94.77	0.462	99.97	44
45	6.552	19.61	5.990	44.38	5.021	66.12	3.709	83.36	2.145	94.91	0.433	100.00	45
46	6.546	20.04	5.977	44.77	5.002	66.45	3.685	83.60	2.117	95.05	0.404	100.03	46
47	6.540	20.47	5.964	45.16	4.982	66.78	3.661	83.84	2.089	95.19	0.375	100.06	47
48	6.534	20.89	5.951	45.55	4.962	67.10	3.636	84.08	2.061	95.33	0.346	100.08	48
49	6.528	21.32	5.938	45.94	4.943	67.43	3.612	84.32	2.034	95.46	0.317	100.10	49
50	6.522	21.75	5.925	46.33	4.923	67.75	3.587	84.56	2.006	95.59	0.288	100.12	50
51	6.516	22.18	5.911	46.72	4.903	68.07	3.562	84.79	1.978	95.72	0.259	100.14	51
52	6.509	22.60	5.897	47.10	4.883	68.39	3.537	85.02	1.950	95.85	0.229	100.15	52
53	6.503	23.03	5.883	47.49	4.863	68.71	3.513	85.25	1.922	95.98	0.200	100.17	53
54	6.496	23.46	5.869	47.88	4.843	69.03	3.488	85.48	1.894	96.11	0.171	100.18	54
55	6.489	23.88	5.855	48.26	4.823	69.34	3.463	85.71	1.866	96.23	0.142	100.19	55
56	6.482	24.30	5.841	48.64	4.803	69.65	3.438	85.93	1.838	96.35	0.113	100.20	56
57	6.475	24.73	5.827	49.02	4.783	69.97	3.413	86.16	1.810	96.47	0.084	100.21	57
58	6.468	25.15	5.813	49.40	4.763	70.28	3.388	86.38	1.782	96.59	0.055	100.21	58
59	6.460	25.57	5.799	49.78	4.742	70.59	3.362	86.60	1.754	96.70	0.026	100.21	59
60	6.452	25.99	5.784	50.16	4.721	70.90	3.337	86.82	1.726	96.81	—	100.21	60

Reduktionsgrößen 1945

Übertragung von Sternörtern vom mittleren Äquinoktium 1945.0 auf das Normaläquinoktium 1950.0

α	B	α	α	B	α
h m	s	h m	h m	s	h m
0 0	+15.366	12 0	6 0	+15.366	18 0
10	15.366	10	10	15.366	10
20	15.366	20	20	15.366	20
30	15.366	30	30	15.366	30
40	15.366	40	40	15.366	40
50	15.366	50	50	15.366	50
1 0	+15.366	13 0	7 0	+15.367	19 0
10	15.366	10	10	15.367	10
20	15.366	20	20	15.367	20
30	15.366	30	30	15.367	30
40	15.366	40	40	15.367	40
50	15.365	50	50	15.367	50
2 0	+15.365	14 0	8 0	+15.367	20 0
10	15.365	10	10	15.367	10
20	15.365	20	20	15.367	20
30	15.365	30	30	15.367	30
40	15.365	40	40	15.367	40
50	15.365	50	50	15.367	50
3 0	+15.365	15 0	9 0	+15.367	21 0
10	15.365	10	10	15.367	10
20	15.365	20	20	15.367	20
30	15.365	30	30	15.367	30
40	15.365	40	40	15.367	40
50	15.365	50	50	15.367	50
4 0	+15.365	16 0	10 0	+15.367	22 0
10	15.365	10	10	15.367	10
20	15.366	20	20	15.367	20
30	15.366	30	30	15.367	30
40	15.366	40	40	15.367	40
50	15.366	50	50	15.367	50
5 0	+15.366	17 0	11 0	+15.367	23 0
10	15.366	10	10	15.366	10
20	15.366	20	20	15.366	20
30	15.366	30	30	15.366	30
40	15.366	40	40	15.366	40
50	15.366	50	50	15.366	50
6 0	+15.366	18 0	12 0	+15.366	24 0

C	ΔC	P	C	ΔC	P
s	s		s	s	
0	*e* 0.000	*e* 0.0000	350	*e* 0.076	*e* 0.1909
10	000	0055	360	082	1963
20	000	0109	370	089	2018
30	000	0164	380	097	2072
40	000	0218	390	104	2127
50	*e* 0.000	*e* 0.0273	400	*e* 0.113	*e* 0.2181
60	000	0327	410	121	2236
70	001	0382	420	131	2290
80	001	0436	430	140	2345
90	001	0491	440	150	2399
100	*e* 0.002	*e* 0.0545	450	*e* 0.161	*e* 0.2454
110	002	0600	460	172	2508
120	003	0654	470	183	2563
130	004	0709	480	195	2617
140	005	0764	490	207	2672
150	*e* 0.006	*e* 0.0818	500	*e* 0.220	*e* 0.2726
160	007	0873	510	234	2781
170	009	0927	520	248	2835
180	010	0982	530	262	2890
190	012	1036	540	277	2944
200	*e* 0.014	*e* 0.1091	550	*e* 0.293	*e* 0.2999
210	016	1145	560	309	3053
220	019	1200	570	326	3107
230	022	1254	580	344	3162
240	025	1309	590	362	3216
250	*e* 0.028	*e* 0.1363	600	*e* 0.380	*e* 0.3271
260	031	1418	610	400	3325
270	035	1473	620	420	3380
280	039	1527	630	440	3434
290	043	1582	640	462	3489
300	*e* 0.048	*e* 0.1636	650	*e* 0.484	*e* 0.3543
310	053	1691	660	506	3598
320	058	1745	670	529	3652
330	063	1800	680	553	3707
340	069	1854	690	578	3761
350	*e* 0.076	*e* 0.1909	700	*e* 0.604	*e* 0.3815

e bedeutet: Vorzeichen entgegengesetzt dem Vorzeichen des Arguments.

$$\alpha_{1950} = \alpha_{1945} + B + C + \Delta C, \text{ wobei } C = A.\ \mathrm{tg}\,(\delta_{1945} + D)$$
$$\delta_{1950} = \delta_{1945} + D + R, \text{ wobei } R = A.\ P$$

A und *D* sind aus der Tafel S. 288* u. 289* mit dem Argument α_{1945} zu entnehmen. Für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten. *B*, Δ*C* und *P* sind in der obenstehenden Tafel enthalten. Die Vorzeichen von Δ*C* und *P* sind dem Vorzeichen von *C* entgegengesetzt.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hilfstafeln

1945

Im Jahre 1945 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

I. Ringförmige Sonnenfinsternis 1945 Januar 14
unsichtbar in Berlin

Konjunktion in Rektaszension	Jan. 14,	4ʰ 57ᵐ 19ˢ.4 Welt-Zeit

Rektaszension des Mondes	19ʰ 42ᵐ 11ˢ.58
Stündliche Änderung	2 30.10
Rektaszension der Sonne	19 42 11.58
Stündliche Änderung	10.78
Deklination des Mondes	−21° 51′ 8″.0
Stündliche Änderung	+ 2 48.9
Deklination der Sonne	−21 22 9.9
Stündliche Änderung	+ 26.2
Äquatorialhorizontalparallaxe des Mondes	58′ 39″.7
„ der Sonne	8.9
Halbmesser des Mondes	15′ 58″.3
„ der Sonne	16 15.6

		Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
		h m	° ′	° ′
Anfang der Finsternis	Jan. 14,	2 22.0	312 0	−21 13
Beginn der zentralen Verfinsterung	„	3 27.2	333 21	−31 21
Zentrale Verfinsterung im wahren Mittag	„	4 57.3	252 5	−51 18
Ende der zentralen Verfinsterung .	„	6 35.4	176 45	−23 37
Ende der Finsternis	„	7 40.5	197 32	−13 22

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge von Greenwich	Geogr. Breite	Dauer der ringförm. Verfinsterung	Welt-Zeit	Westl. Länge von Greenwich	Geogr. Breite	Dauer der ringförm. Verfinsterung
h m	° ′	° ′	s	h m	° ′	° ′	s
3 27.2	333 21	−31 21	—	5 0	250 29.9	−51 10.0	14.9
3 30	320 43.5	−36 34.0	52.7	5 10	244 42.0	−50 28.2	14.8
3 40	306 33.6	−42 14.6	43.0	5 20	239 2.6	−49 27.7	15.5
3 50	297 15.0	−45 29.8	36.4	5 30	233 29.6	−48 8.7	16.9
4 0	289 23.0	−47 46.7	30.9	5 40	227 59.6	−46 30.7	19.0
4 10	282 12.3	−49 25.0	26.4	5 50	222 26.6	−44 32.4	22.0
4 20	275 25.4	−50 33.2	22.7	6 0	216 41.3	−42 11.1	25.8
4 30	268 54.3	−51 15.6	19.6	6 10	210 26.9	−39 20.6	30.5
4 40	262 35.5	−51 34.8	17.3	6 20	203 7.3	−35 46.8	36.5
4 50	256 27.6	−51 32.5	15.7	6 30	192 43.9	−30 40.9	44.8
5 0	250 29.9	−51 10.0	14.9	6 35.4	176 45	−23 37	—

Die Finsternis ist sichtbar im südwestlichen Teil des Stillen Ozeans, im Südlichen Eismeer, auf Neuseeland, in Australien, im östlichen Teil von Neuguinea, im südlichen Teil des Indischen Ozeans, auf Madagaskar und im südöstlichen Teil von Afrika.

Elemente der ringförmigen Sonnenfinsternis 1945 Januar 14

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m					° ′ ″		
2 20	−1.448571	−0.600911	9.561895n	9.969014	212 45 16.1	+0.551088	+0.005144
30	1.356514	0.594260	9.561872n	9.969018	215 15 14.6	0.551079	0.005135
40	1.264453	0.587599	9.561849n	9.969021	217 45 13.2	0.551069	0.005125
50	1.172389	0.580927	9.561825n	9.969025	220 15 11.8	0.551058	0.005114
3 0	−1.080322	−0.574245	9.561802n	9.969028	222 45 10.4	+0.551047	+0.005103
10	0.988252	0.567553	9.561779n	9.969032	225 15 9.0	0.551035	0.005091
20	0.896179	0.560851	9.561756n	9.969035	227 45 7.5	0.551022	0.005078
30	0.804103	0.554138	9.561733n	9.969039	230 15 6.1	0.551009	0.005065
40	0.712024	0.547415	9.561709n	9.969043	232 45 4.7	0.550995	0.005051
50	0.619944	0.540682	9.561686n	9.969046	235 15 3.2	0.550980	0.005037
4 0	−0.527862	−0.533939	9.561663n	9.969050	237 45 1.8	+0.550965	+0.005022
10	0.435778	0.527186	9.561640n	9.969053	240 15 0.4	0.550949	0.005006
20	0.343693	0.520423	9.561617n	9.969057	242 44 58.9	0.550932	0.004989
30	0.251607	0.513650	9.561594n	9.969060	245 14 57.5	0.550915	0.004972
40	0.159520	0.506866	9.561571n	9.969064	247 44 56.1	0.550897	0.004954
50	−0.067432	0.500072	9.561548n	9.969067	250 14 54.6	0.550879	0.004936
5 0	+0.024656	−0.493268	9.561524n	9.969071	252 44 53.2	+0.550860	+0.004917
10	0.116745	0.486454	9.561501n	9.969075	255 14 51.8	0.550840	0.004897
20	0.208834	0.479631	9.561478n	9.969078	257 44 50.4	0.550820	0.004877
30	0.300922	0.472798	9.561455n	9.969082	260 14 48.9	0.550799	0.004856
40	0.393010	0.465954	9.561431n	9.969085	262 44 47.5	0.550777	0.004834
50	0.485097	0.459100	9.561408n	9.969089	265 14 46.1	0.550754	0.004812
6 0	+0.577184	−0.452236	9.561385n	9.969092	267 44 44.7	+0.550731	+0.004789
10	0.669269	0.445363	9.561361n	9.969096	270 14 43.3	0.550707	0.004765
20	0.761353	0.438479	9.561338n	9.969099	272 44 41.8	0.550682	0.004741
30	0.853436	0.431585	9.561315n	9.969103	275 14 40.4	0.550657	0.004716
40	0.945517	0.424681	9.561292n	9.969107	277 44 39.0	0.550631	0.004690
50	1.037596	0.417768	9.561269n	9.969110	280 14 37.5	0.550605	0.004664
7 0	+1.129672	−0.410845	9.561246n	9.969114	282 44 36.1	+0.550578	+0.004637
10	1.221746	0.403912	9.561222n	9.969117	285 14 34.7	0.550550	0.004609
20	1.313817	0.396969	9.561199n	9.969121	287 44 33.3	0.550522	0.004581
30	1.405886	0.390016	9.561176n	9.969124	290 14 31.8	0.550493	0.004552
40	1.497952	0.383053	9.561152n	9.969128	292 44 30.4	0.550463	0.004523
50	+1.590014	−0.376081	9.561129n	9.969131	295 14 29.0	+0.550432	+0.004493

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
2 0	+0.0092048	+0.0006626	7.67704	7.67487
3 0	0.0092069	0.0006687	7.67704	7.67487
4 0	0.0092083	0.0006748	7.67703	7.67486
5 0	0.0092089	0.0006809	7.67703	7.67486
6 0	0.0092086	0.0006869	7.67703	7.67486
7 0	0.0092075	0.0006928	7.67703	7.67486
8 0	+0.0092056	+0.0006987	7.67703	7.67486

II. Partielle Mondfinsternis 1945 Juni 25 unsichtbar in Berlin.

Opposition in Rektaszension	Juni 25,	15h	9m	34s.5	Welt-Zeit

	h	m	s
Rektaszension des Mondes	18	15	59.03
Stündliche Änderung		2	19.21
Rektaszension der Sonne	6	15	59.03
Stündliche Änderung			10.38

	°	′	″
Deklination des Mondes	−22	53	25.9
Stündliche Änderung	—	2	3.2
Deklination der Sonne	+23	23	41.7
Stündliche Änderung	—		4.0

	′	″
Äquatorialhorizontalparallaxe des Mondes. .	56	13.9
„ der Sonne . .		8.7

	′	″
Halbmesser des Mondes	15	18.6
„ der Sonne	15	44.0

		h	m	
Eintritt des Mondes in den Halbschatten. .	Juni 25,	12	25.6	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	„	13	37.3	„
Mitte der Finsternis	„	15	13.9	„
Austritt des Mondes aus dem Kernschatten	„	16	50.7	„
Austritt des Mondes aus dem Halbschatten	„	18	2.3	„

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

204° 32′ westliche Länge von Greenwich, 22° 50′ südliche Breite
251 10 „ „ „ „ 22 57 „ „

Positionswinkel des Eintritts . . . . = 126°
„ „ Austritts . . . . = 242
Größe der Finsternis in Einheiten des Monddurchmessers . . = 0.865

Der Anfang der Finsternis ist sichtbar im Stillen Ozean, in Australien und Polynesien, im Südlichen Eismeer, im östlichen Teil des Indischen Ozeans, auf den Sunda-Inseln und im südöstlichen Teil Asiens. Das Ende ist sichtbar im westlichen Teil des Stillen Ozeans, im westlichen Teil von Polynesien, in Australien, im Südlichen Eismeer, im Indischen Ozean, an der Ostküste Afrikas, auf den Sunda-Inseln und in Asien mit Ausnahme des nördlichen Teiles.

III. Totale Sonnenfinsternis 1945 Juli 9 in Berlin sichtbar als partielle Finsternis.

Konjunktion in Rektaszension . . . . Juli 9, 13h 25m 8.9s Welt-Zeit

Rektaszension des Mondes	7h 13m 29.47s
Stündliche Änderung	2 29.19
Rektaszension der Sonne	7 13 29.47
Stündliche Änderung	10.23
Deklination des Mondes	+23° 4′ 56.7″
Stündliche Änderung	— 1 11.1
Deklination der Sonne	+22 22 16.2
Stündliche Änderung	— 17.9
Äquatorialhorizontalparallaxe des Mondes .	58′ 9.0″
„ der Sonne . .	8.7
Halbmesser des Mondes	15′ 49.9″
„ der Sonne	15 43.9

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
	h m	° ′	° ′
Anfang der Finsternis	Juli 9, 10 59.6	86 6	+27 38
Beginn der zentralen Verfinsterung	„ 12 13.8	115 57	+44 23
Zentrale Verfinsterung im wahren Mittag	„ 13 25.1	20 2	+70 3
Ende der zentralen Verfinsterung .	„ 14 40.9	287 27	+41 43
Ende der Finsternis	„ 15 55.2	316 35	+24 48

Verlauf der Zentrallinie

Welt-zeit	Westl. Länge von Greenwich	Geogr. Breite	Dauer der Totalität	Welt-zeit	Westl. Länge von Greenwich	Geogr. Breite	Dauer der Totalität
h m	° ′	° ′	m s	h m	° ′	° ′	m s
12 13.8	115 57	+44 23	—	13 30	13 50.1	+69 51.0	1 15.5
12 15	107 44.8	+48 12.4	0 29.7	13 35	7 36.0	+69 27.4	1 14.9
12 20	97 15.5	+53 16.1	0 40.2	13 40	1 34.4	+68 52.8	1 14.0
12 25	90 27.1	+56 26.5	0 46.9	13 45	355 47.8	+68 7.5	1 12.8
12 30	84 38.1	+58 57.2	0 52.3	13 50	350 17.2	+67 12.0	1 11.2
12 35	79 12.8	+61 4.2	0 56.8	13 55	345 2.3	+66 6.8	1 9.3
12 40	73 55.3	+62 53.9	1 0.6	14 0	340 1.8	+64 52.1	1 7.0
12 45	68 36.4	+64 29.4	1 3.9	14 5	335 13.2	+63 27.9	1 4.3
12 50	63 10.7	+65 52.2	1 6.7	14 10	330 33.0	+61 53.9	1 1.2
12 55	57 34.4	+67 3.2	1 9.1	14 15	325 56.8	+60 9.0	0 57.6
13 0	51 45.5	+68 2.7	1 11.2	14 20	321 18.6	+58 11.8	0 53.5
13 5	45 43.9	+68 50.6	1 12.8	14 25	316 28.6	+55 58.7	0 48.8
13 10	39 30.7	+69 26.7	1 14.0	14 30	311 11.5	+53 23.3	0 43.3
13 15	33 8.4	+69 50.9	1 14.9	14 35	304 48.2	+50 8.8	0 36.3
13 20	26 41.0	+70 3.0	1 15.5	14 40	294 14.3	+44 52.0	0 25.1
13 25	20 13.3	+70 3.0	1 15.7	14 40.9	287 27	+41 43	—
13 30	13 50.1	+69 51.0	1 15.5				

Die Finsternis ist sichtbar in Asien mit Ausnahme des östlichen und südlichen Teiles, im nördlichen Afrika, in Europa, im Nördlichen Eismeer, in Grönland, im nördlichen Teil des Atlantischen Ozeans, in Nordamerika mit Ausnahme von Kalifornien und des westlichsten Teiles von Alaska und im westlichen Teil von Mittelamerika.

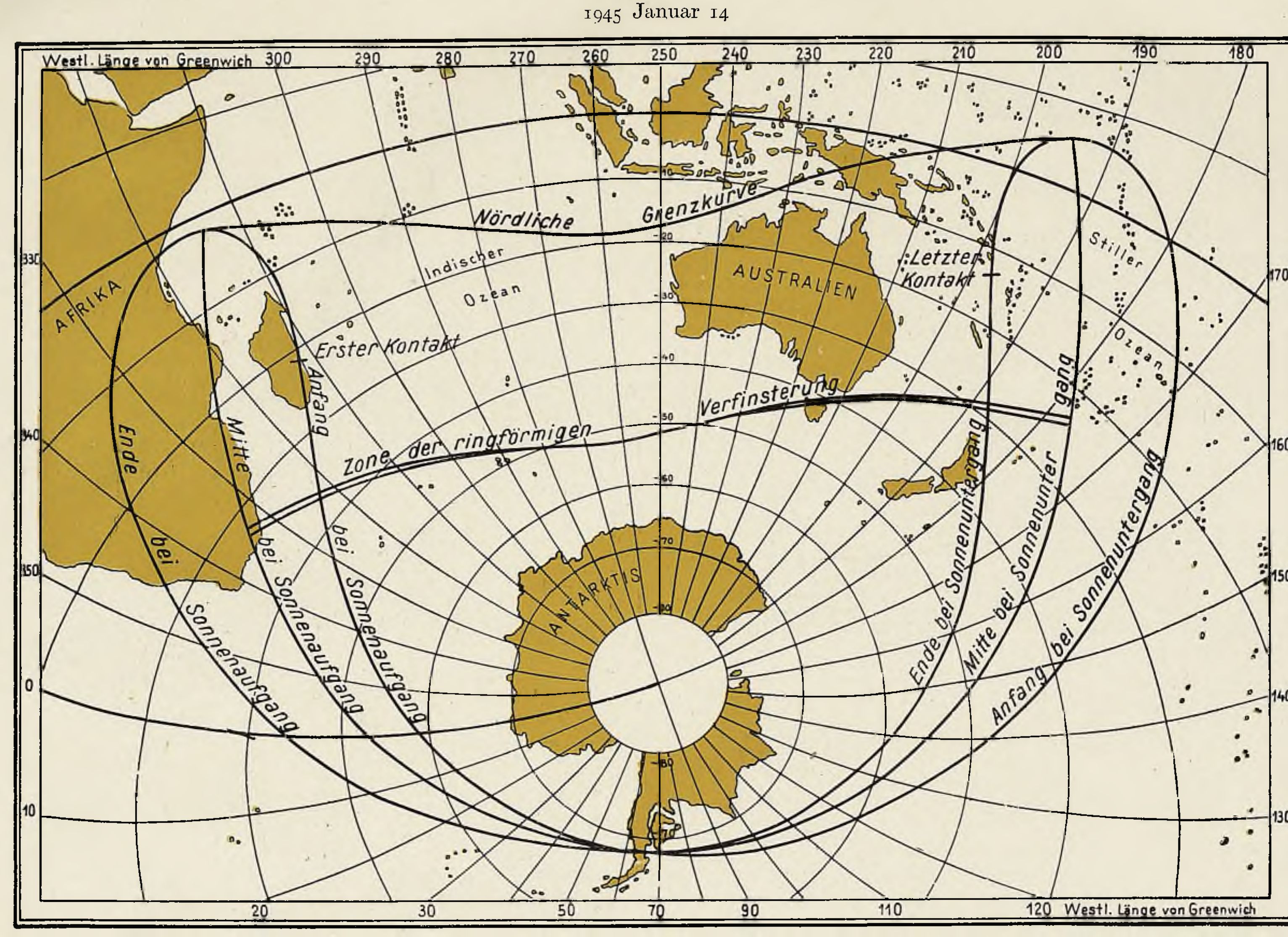
Elemente der totalen Sonnenfinsternis 1945 Juli 9

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m					° ′ ″		
10 50	−1.424662	+0.773128	9.580677	9.965984	341 14 43.2	+0.543769	−0.002136
11 0	1.332843	0.770791	9.580662	9.965987	343 44 43.1	+0.543798	−0.002107
10	1.241022	0.768443	9.580646	9.965989	346 14 43.0	0.543827	0.002078
20	1.149200	0.766085	9.580631	9.965992	348 44 42.9	0.543855	0.002050
30	1.057376	0.763717	9.580616	9.965994	351 14 42.8	0.543882	0.002023
40	0.965551	0.761339	9.580601	9.965997	353 44 42.7	0.543909	0.001996
50	0.873724	0.758950	9.580586	9.966000	356 14 42.6	0.543935	0.001970
12 0	−0.781896	+0.756551	9.580571	9.966002	358 44 42.6	+0.543961	−0.001945
10	0.690068	0.754142	9.580556	9.966005	1 14 42.5	0.543986	0.001920
20	0.598239	0.751723	9.580541	9.966008	3 44 42.4	0.544010	0.001896
30	0.506410	0.749293	9.580526	9.966010	6 14 42.3	0.544034	0.001873
40	0.414581	0.746853	9.580511	9.966013	8 44 42.2	0.544057	0.001850
50	0.322752	0.744403	9.580496	9.966015	11 14 42.1	0.544079	0.001828
13 0	−0.230924	+0.741942	9.580480	9.966018	13 44 42.1	+0.544101	−0.001806
10	0.139096	0.739471	9.580465	9.966020	16 14 42.0	0.544122	0.001785
20	−0.047269	0.736990	9.580450	9.966023	18 44 41.9	0.544142	0.001765
30	+0.044556	0.734499	9.580435	9.966025	21 14 41.8	0.544162	0.001745
40	0.136380	0.731997	9.580420	9.966028	23 44 41.7	0.544181	0.001726
50	0.228203	0.729485	9.580405	9.966031	26 14 41.6	0.544200	0.001708
14 0	+0.320025	+0.726963	9.580390	9.966033	28 44 41.6	+0.544218	−0.001690
10	0.411845	0.724431	9.580374	9.966036	31 14 41.5	0.544235	0.001673
20	0.503662	0.721888	9.580359	9.966038	33 44 41.4	0.544252	0.001656
30	0.595477	0.719335	9.580344	9.966041	36 14 41.3	0.544268	0.001640
40	0.687289	0.716772	9.580329	9.966043	38 44 41.2	0.544283	0.001625
50	0.779099	0.714198	9.580313	9.966046	41 14 41.1	0.544298	0.001610
15 0	+0.870905	+0.711614	9.580298	9.966049	43 44 41.1	+0.544312	−0.001596
10	0.962708	0.709020	9.580282	9.966051	46 14 41.0	0.544326	0.001583
20	1.054508	0.706415	9.580267	9.966054	48 44 40.9	0.544339	0.001570
30	1.146304	0.703800	9.580252	9.966057	51 14 40.8	0.544351	0.001558
40	1.238096	0.701175	9.580237	9.966059	53 44 40.7	0.544363	0.001546
50	1.329884	0.698540	9.580222	9.966062	56 14 40.6	0.544374	0.001535
16 0	+1.421668	+0.695894	9.580206	9.966064	58 44 40.6	+0.544384	−0.001525

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
10 0	+0.0091804	−0.0002281	7.66266	7.66049
11 0	0.0091820	0.0002343	7.66266	7.66049
12 0	0.0091828	0.0002404	7.66266	7.66049
13 0	0.0091828	0.0002466	7.66266	7.66049
14 0	0.0091821	0.0002527	7.66266	7.66049
15 0	0.0091805	0.0002589	7.66266	7.66049
16 0	+0.0091782	−0.0002651	7.66266	7.66049

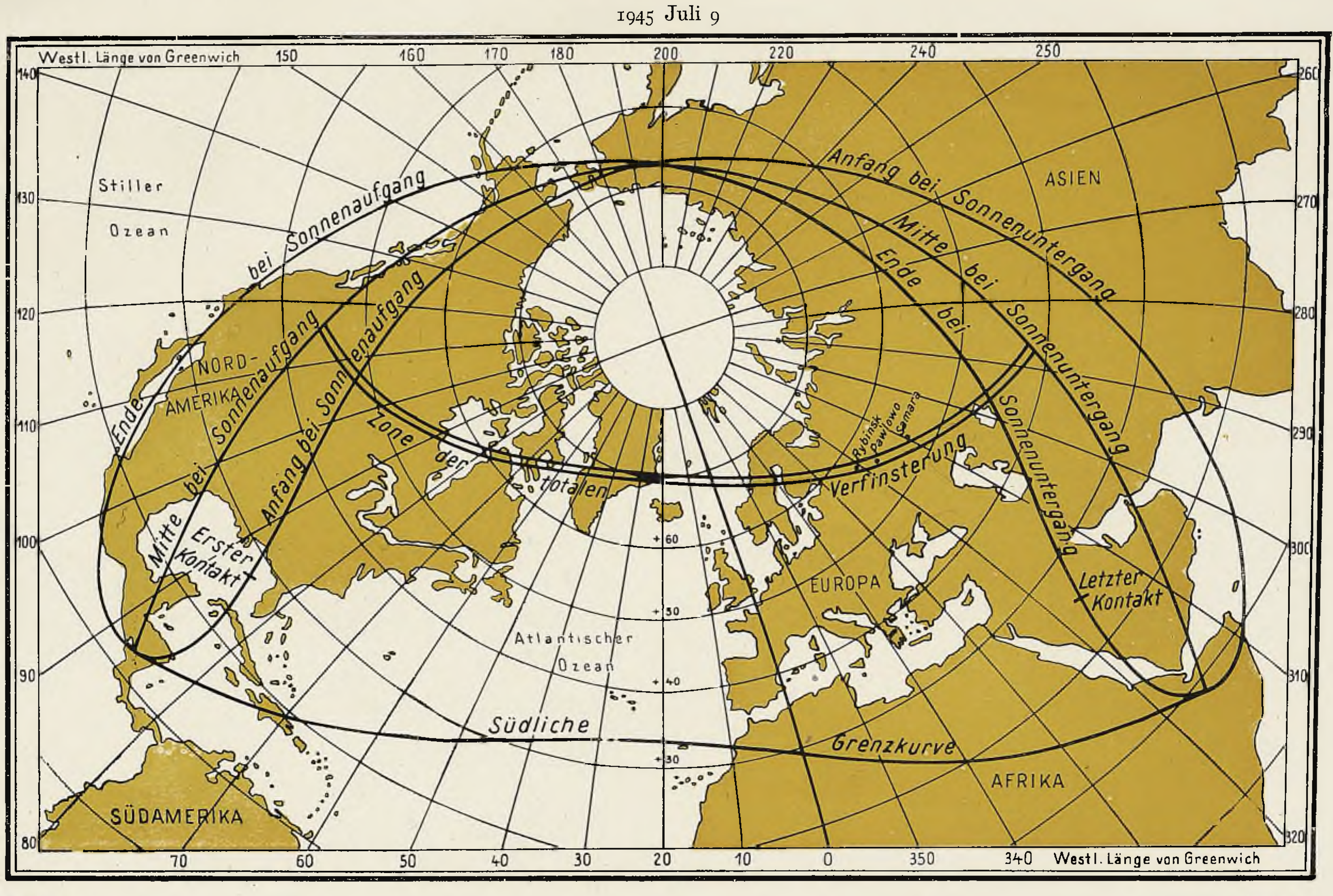
Ringförmige Sonnenfinsternis

1945 Januar 14



Totale Sonnenfinsternis

1945 Juli 9



Zu Seite 295*

Sonnenfinsternis 1945 Juli 9

Geographische Breite	Anfang der Finsternis									Größte Phase					Geographische Breite
	Östliche Länge von Greenwich									Östl. Länge von Greenwich					
	20m	30m	40m	50m	60m	70m	80m	90m	100m	20m	30m	40m	50m	60m	
	Welt-Zeit									Welt-Zeit					
	12h	12h	12h	12h	12h	12h	12h	12h	13h	13h	13h	14h	14h	14h	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
44°	69.1	72.7	76.1	79.3	82.3	85.0	87.6	89.9	32.1	78.7	82.2	25.4	28.4	31.1	44°
45	66.6	70.2	73.6	76.8	79.8	82.6	85.2	87.6	29.8	77.2	80.6	23.8	26.7	29.3	45
46	64.2	67.8	71.2	74.4	77.5	80.3	82.9	85.4	27.6	75.6	79.0	22.1	25.0	27.6	46
47	61.9	65.5	68.9	72.1	75.2	78.0	80.7	83.2	25.4	74.1	77.4	20.5	23.3	25.9	47
48	59.7	63.3	66.7	69.9	73.0	75.8	78.5	81.0	23.3	72.5	75.8	18.8	21.6	24.2	48
49	57.7	61.2	64.6	67.8	70.9	73.7	76.4	78.9	21.2	71.0	74.2	17.2	20.0	22.5	49
50	55.7	59.2	62.6	65.8	68.8	71.6	74.3	76.9	19.2	69.5	72.7	15.6	18.3	20.8	50
51	53.8	57.3	60.6	63.8	66.8	69.6	72.3	74.9	17.2	68.0	71.1	14.0	16.7	19.1	51
52	52.0	55.4	58.7	61.9	64.9	67.7	70.4	72.9	15.3	66.6	69.6	12.4	15.1	17.5	52
53	50.3	53.7	57.0	60.1	63.1	65.9	68.5	71.0	13.4	65.1	68.1	10.9	13.4	15.8	53
54	48.7	52.1	55.3	58.4	61.3	64.1	66.7	69.2	11.6	63.7	66.6	9.3	11.8	14.2	54
55	47.3	50.5	53.7	56.7	59.6	62.4	65.0	67.4	9.8	62.3	65.1	7.8	10.2	12.5	55
56	45.9	49.1	52.2	55.1	58.0	60.7	63.3	65.7	8.0	60.9	63.7	6.2	8.6	10.9	56
57	44.6	47.8	50.8	53.7	56.5	59.1	61.6	64.0	6.3	59.5	62.2	4.7	7.1	9.2	57
58	43.5	46.5	49.4	52.3	55.0	57.6	60.1	62.4	4.7	58.2	60.8	3.2	5.5	7.6	58
59	42.4	45.3	48.2	51.0	53.6	56.1	58.6	60.9	3.1	56.8	59.4	1.7	3.9	6.0	59
60	41.4	44.3	47.0	49.7	52.3	54.7	57.1	59.4	1.6	55.5	58.0	0.2	2.4	4.4	60

	Winkel P									Betrag der größten Phase					
	°	°	°	°	°	°	°	°	°						
44°	311.3	310.3	309.2	308.0	306.8	305.6	304.3	302.9	301.5	0.45	0.47	0.49	0.51	0.53	44°
46	307.5	306.6	305.6	304.5	303.4	302.3	301.1	299.9	298.6	0.50	0.52	0.54	0.56	0.58	46
48	303.8	303.0	302.1	301.1	300.2	299.1	298.0	296.9	295.7	0.55	0.57	0.59	0.61	0.63	48
50	300.2	299.5	298.7	297.9	297.0	296.0	295.0	294.0	292.8	0.60	0.62	0.64	0.65	0.67	50
52	296.8	296.1	295.4	294.7	293.9	293.0	292.1	291.1	290.1	0.65	0.67	0.68	0.70	0.72	52
54	293.5	292.9	292.3	291.6	290.9	290.1	289.3	288.4	287.4	0.70	0.71	0.73	0.75	0.76	54
56	290.3	289.8	289.3	288.7	288.0	287.3	286.5	285.7	284.8	0.74	0.76	0.77	0.79	0.81	56
58	287.3	286.8	286.3	285.8	285.2	284.5	283.8	283.1	282.3	0.79	0.80	0.82	0.83	0.85	58
60	284.4	284.0	283.5	283.0	282.5	281.9	281.2	280.5	279.8	0.84	0.85	0.86	0.88	0.89	60

	Winkel Q														
	°	°	°	°	°	°	°	°	°						
44°	277.3	273.1	269.2	265.6	262.3	259.3	256.6	254.2	252.2	.	.	.	.	.	44°
46	277.7	273.5	269.6	266.0	262.7	259.7	257.0	254.5	252.4	.	.	.	.	.	46
48	277.8	273.7	269.9	266.3	263.0	260.0	257.3	254.8	252.6	.	.	.	.	.	48
50	277.6	273.7	269.9	266.5	263.2	260.2	257.5	255.0	252.8	.	.	.	.	.	50
52	277.2	273.4	269.8	266.5	263.3	260.4	257.7	255.2	253.0	.	.	.	.	.	52
54	276.6	273.0	269.5	266.3	263.3	260.5	257.9	255.4	253.2	.	.	.	.	.	54
56	275.7	272.3	269.1	266.1	263.2	260.5	258.0	255.6	253.4	.	.	.	.	.	56
58	274.5	271.4	268.5	265.7	263.0	260.4	258.0	255.8	253.6	.	.	.	.	.	58
60	273.1	270.3	267.7	265.1	262.6	260.3	258.0	255.9	253.8	.	.	.	.	.	60

Sonnen- und Mondfinsternisse 1945

Sonnenfinsternis 1945 Juli 9

Geographische Breite	Größte Phase					Ende der Finsternis									Geographische Breite
	Östl. Länge von Greenwich					Östliche Länge von Greenwich									
	60m	70m	80m	90m	100m	20m	30m	40m	50m	60m	70m	80m	90m	100m	
	Welt-Zeit					Welt-Zeit									
	14h	14h	14h	14h	14h	15h	15h	15h	15h	15h	15h	15h	15h	15h	
°	m	m	m	m	m	m	m	m	m	m	m	m	m	m	°
44	31.1	33.5	35.6	37.5	39.1	22.5	25.7	28.6	31.2	33.5	35.5	37.2	38.7	39.8	44
45	29.3	31.7	33.9	35.7	37.4	21.9	25.0	27.7	30.3	32.5	34.5	36.1	37.5	38.6	45
46	27.6	30.0	32.1	34.0	35.6	21.2	24.2	26.9	29.3	31.5	33.4	35.0	36.3	37.4	46
47	25.9	28.3	30.4	32.2	33.9	20.5	23.4	26.0	28.3	30.4	32.2	33.8	35.1	36.2	47
48	24.2	26.5	28.6	30.5	32.1	19.7	22.5	25.0	27.2	29.3	31.0	32.6	33.9	34.9	48
49	22.5	24.8	26.9	28.7	30.4	18.9	21.5	24.0	26.1	28.1	29.8	31.3	32.6	33.6	49
50	20.8	23.1	25.2	27.0	28.6	18.0	20.5	22.9	25.0	26.9	28.6	30.0	31.2	32.2	50
51	19.1	21.4	23.4	25.3	26.9	17.0	19.5	21.8	23.8	25.6	27.3	28.6	29.8	30.8	51
52	17.5	19.7	21.7	23.5	25.1	16.0	18.4	20.6	22.6	24.3	25.9	27.2	28.4	29.3	52
53	15.8	18.0	20.0	21.8	23.4	15.0	17.3	19.4	21.3	23.0	24.5	25.8	26.9	27.8	53
54	14.2	16.3	18.3	20.0	21.6	13.9	16.1	18.1	19.9	21.6	23.1	24.3	25.4	26.3	54
55	12.5	14.6	16.6	18.3	19.9	12.7	14.8	16.8	18.5	20.2	21.6	22.8	23.9	24.7	55
56	10.9	12.9	14.8	16.6	18.1	11.5	13.5	15.4	17.1	18.7	20.0	21.2	22.3	23.1	56
57	9.2	11.3	13.1	14.8	16.4	10.2	12.2	14.0	15.6	17.2	18.5	19.6	20.6	21.4	57
58	7.6	9.6	11.4	13.1	14.6	8.8	10.8	12.5	14.1	15.6	16.9	18.0	18.9	19.7	58
59	6.0	7.9	9.7	11.4	12.9	7.4	9.3	11.0	12.5	14.0	15.2	16.3	17.2	18.0	59
60	4.4	6.3	8.0	9.6	11.1	6.0	7.8	9.4	10.9	12.3	13.5	14.6	15.5	16.2	60

Geographische Breite	Betrag der größten Phase					Winkel P									Geographische Breite
°						°	°	°	°	°	°	°	°	°	°
44	0.53	0.56	0.58	0.61	0.63	65.3	66.9	68.5	70.1	71.7	73.2	74.7	76.2	77.7	44
46	0.58	0.60	0.63	0.65	0.67	68.3	69.9	71.3	72.8	74.3	75.7	77.2	78.6	80.0	46
48	0.63	0.65	0.67	0.69	0.71	71.2	72.7	74.0	75.4	76.8	78.1	79.5	80.8	82.2	48
50	0.67	0.69	0.71	0.74	0.76	74.0	75.4	76.6	77.9	79.2	80.5	81.7	83.0	84.3	50
52	0.72	0.74	0.76	0.78	0.80	76.7	78.0	79.1	80.3	81.5	82.7	83.9	85.1	86.3	52
54	0.76	0.78	0.80	0.82	0.84	79.3	80.4	81.5	82.7	83.8	84.9	86.0	87.1	88.2	54
56	0.81	0.82	0.84	0.86	0.87	81.8	82.8	83.8	84.9	85.9	86.9	88.0	89.0	90.1	56
58	0.85	0.86	0.88	0.90	0.91	84.1	85.1	86.0	87.0	87.9	88.9	89.9	90.9	91.9	58
60	0.89	0.90	0.92	0.93	0.95	86.3	87.2	88.1	89.0	89.9	90.8	91.7	92.6	93.6	60

Geographische Breite						Winkel Q									Geographische Breite
°						°	°	°	°	°	°	°	°	°	°
44	.	.	.	.	.	14.6	15.9	17.4	18.9	20.4	22.0	23.7	25.5	27.3	44
46	.	.	.	.	.	20.3	21.4	22.7	24.0	25.4	26.8	28.4	30.0	31.7	46
48	.	.	.	.	.	25.9	26.8	27.9	29.0	30.3	31.6	33.0	34.4	36.0	48
50	.	.	.	.	.	31.3	32.1	33.0	34.0	35.1	36.2	37.5	38.8	40.3	50
52	.	.	.	.	.	36.6	37.3	38.0	38.9	39.8	40.8	41.9	43.1	44.5	52
54	.	.	.	.	.	41.8	42.3	42.9	43.6	44.4	45.3	46.3	47.4	48.6	54
56	.	.	.	.	.	46.9	47.3	47.8	48.3	49.0	49.8	50.6	51.6	52.7	56
58	.	.	.	.	.	51.8	52.1	52.5	52.9	53.5	54.2	54.9	55.8	56.7	58
60	.	.	.	.	.	56.6	56.8	57.1	57.4	57.9	58.5	59.1	59.9	60.7	60

IV. Totale Mondfinsternis 1945 Dezember 18—19 sichtbar in Berlin.

Opposition in Rektaszension	Dez. 19;	2h 16m 37.8s Welt-Zeit
Rektaszension des Mondes		5h 46m 10.33s
Stündliche Änderung		2 40.11
Rektaszension der Sonne		17 46 10.33
Stündliche Änderung		11.09
Deklination des Mondes		+23° 7′ 8.9″
Stündliche Änderung		+ 4 17.9
Deklination der Sonne		—23 24 28.9
Stündliche Änderung		— 3.6
Äquatorialhorizontalparallaxe des Mondes		60′ 27.3″
„ der Sonne		8.9
Halbmesser des Mondes		16′ 27.6″
„ der Sonne		16 15.4

Eintritt des Mondes in den Halbschatten . .	Dez. 18,	23h 38.4m	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	„ 19,	0 37.5	„
Anfang der totalen Verfinsterung	„	1 40.5	„
Mitte der Finsternis	„	2 20.3	„
Ende der totalen Verfinsterung	„	3 0.2	„
Austritt des Mondes aus dem Kernschatten	„	4 3.1	„
Austritt des Mondes aus dem Halbschatten	„	5 2.2	„

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

11° 12′ westliche Länge von Greenwich, 23° 0′ nördliche Breite
60 26 „ „ „ „ 23 15 „ „

Positionswinkel des Eintritts . . . . = 67°
„ „ Austritts . . . . =279

Größe der Finsternis in Einheiten des Monddurchmessers . . =1.348

Der Anfang der Finsternis ist sichtbar im westlichsten Teil Asiens, in Europa, in Afrika, im Nördlichen Eismeer, in Grönland, im Atlantischen Ozean, im Osten Nordamerikas, in Mittel- und Südamerika mit Ausnahme des südlichsten Teiles. Das Ende ist sichtbar in Europa mit Ausnahme des östlichen Teiles, in Afrika mit Ausnahme des südlichsten und östlichen Teiles, im Atlantischen Ozean, im Nördlichen Eismeer, in Grönland, in Nordamerika mit Ausnahme von Alaska, in Mittel- und Südamerika und im östlichen Teil des Stillen Ozeans.

Sternbedeckungen 1945

Mittlere Örter der Sterne, die im Jahre 1945 in Mitteleuropa vom Monde bedeckt werden

Name	Gr.	AR. 1945.0	Jährliche Eigenbew.	Dekl. 1945.0	Jährliche Eigenbew.
	m	h m s	s	° ′ ″	″
33 Piscium	4.7	0 2 31.171	−0.0009	− 6 0 54.33	+0.100
24 B. Ceti	6.0	0 7 29.875	+0.0026	− 5 33 14.98	−0.026
20 Ceti	4.9	0 50 11.719	+0.0005	− 1 26 33.17	−0.013
ξ^2 Ceti	4.3	2 25 13.841	+0.0025	+ 8 12 52.42	−0.005
μ Ceti	4.4	2 41 57.901	+0.0194	+ 9 52 59.10	−0.028
147 B. Arietis	5.8	3 3 22.262	+0.0003	+12 58 34.90	−0.059
85 H.[1] Tauri	6.0	4 17 13.102	+0.0080	+18 36 44.68	−0.032
δ Tauri	3.9	4 19 45.542	+0.0074	+17 24 54.56	−0.028
64 Tauri	4.8	4 20 55.302	+0.0080	+17 19 5.30	−0.041
234 B. Tauri	6.0	4 21 44.547	+0.0074	+18 55 1.71	−0.039
68 Tauri	4.2	4 22 18.222	+0.0078	+17 48 14.06	−0.024
ε Tauri	3.6	4 25 24.066	+0.0076	+19 3 36.46	−0.034
1 Tauri	5.3	5 4 32.896	−0.0040	+20 20 51.56	−0.033
o Tauri	4.8	5 24 19.729	0.0000	+21 53 30.58	−0.008
ζ Tauri	3.0	5 34 21.337	+0.0001	+21 6 38.97	−0.022
BD + 20°1105 *m*	5.9	5 45 5.284	+0.0007	+20 51 7.79	−0.008
1 Geminorum	4.3	6 0 46.534	−0.0007	+23 16 5.28	−0.104
14 B. Geminorum	6.0	6 6 13.395	−0.0009	+22 12 3.28	−0.002
3 Geminorum *m*	5.8	6 6 23.531	0.0000	+23 7 27.30	−0.005
η Geminorum *sq*	3.2—4.2	6 11 33.393	−0.0051	+22 31 28.50	−0.013
μ Geminorum	3.2	6 19 37.941	+0.0038	+22 32 37.01	−0.116
36 B. Geminorum	6.0	6 22 12.296	−0.0008	+23 21 33.79	−0.009
d Geminorum	5.2	6 48 15.255	−0.0011	+21 49 40.29	−0.037
87 B. Geminorum	5.8	6 48 39.627	−0.0036	+23 40 7.05	−0.007
44 Geminorum	5.9	7 1 59.725	−0.0006	+22 43 17.32	−0.019
δ Geminorum	3.5	7 16 50.345	−0.0021	+22 5 7.17	−0.015
58 Geminorum	6.0	7 20 9.908	−0.0021	+23 3 10.29	−0.043
63 Geminorum	5.3	7 24 28.534	−0.0045	+21 33 33.74	−0.122
μ Cancri	5.4	8 4 31.762	+0.0011	+21 44 34.82	−0.070
49 B. Cancri	5.9	8 17 8.613	+0.0039	+20 55 21.49	−0.051
η Cancri	5.5	8 29 31.816	−0.0034	+20 37 45.77	−0.050
8 Leonis	5.9	9 34 0.654	−0.0010	+16 41 7.60	−0.003
37 Leonis	5.7	10 13 43.716	−0.0014	+14 0 11.97	−0.019
ν Virginis	4.2	11 43 1.925	−0.0014	+ 6 50 15.59	−0.187
c Virginis	5.1	12 17 33.283	−0.0199	+ 3 37 7.19	−0.071
80 Virginis	5.8	13 32 39.430	+0.0016	− 5 7 0.33	+0.073
ψ Ophiuchi	4.6	16 20 52.817	−0.0014	−19 54 37.12	−0.052
131 B. Scorpii	5.6	16 38 39.443	+0.0018	−19 49 14.28	+0.042
21 G. Sagittarii	5.7	17 58 34.340	−0.0004	−22 46 50.66	−0.015
1 Sagittarii	5.1	18 8 21.889	+0.0013	−23 42 51.25	−0.029
49 Sagittarii	5.6	19 22 10.010	−0.0011	−24 4 18.44	−0.004
17 Capricorni	5.9	20 42 58.792	+0.0012	−21 42 54.84	−0.010
χ Capricorni	5.3	21 5 24.741	+0.0011	−21 24 57.09	−0.058
φ Capricorni	5.4	21 12 30.222	+0.0010	−20 52 51.93	+0.004
ε Capricorni	4.7	21 34 0.199	+0.0005	−19 42 48.22	+0.010
$\varkappa$ Capricorni	4.8	21 39 35.352	+0.0099	−19 7 4.68	−0.005
τ Aquarii	4.2	22 46 40.861	−0.0010	−13 53 0.06	−0.031
30 Piscium	4.7	23 59 8.323	+0.0030	− 6 19 10.92	−0.035

Sternbedeckungen 1945

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern: Name	Gr.	Δα	Δδ	δ app.	Konjunktion in Rektaszension: Welt-Zeit	Stundenw. H	Y	x′	y′	Alter d. Mondes
Januar										
	m	s	"	° ′	d h m	h m				d
30 Piscium	4.7	−1.41	−11.0	− 6 19.4	18 16 22.0	+0 13.7	+0.8521	0.5596	+0.2223	4.5
33 Piscium	4.7	−1.39	−10.9	− 6 1.1	18 17 52.8	+1 41.4	+0.8829	0.5591	+0.2230	4.5
24 B. Ceti	6.0	−1.37	−10.9	− 5 33.4	18 20 6.8	+3 50.8	+0.9185	0.5585	+0.2240	4.6
20 Ceti	4.9	−1.12	−10.1	− 1 26.7	19 15 25.7	−1 29.8	+1.1526	0.5545	+0.2276	5.4
μ Ceti	4.4	−0.51	− 6.5	+ 9 52.9	21 18 16.7	−0 22.3	+0.7648	0.5573	+0.2000	7.6
δ Tauri	3.9	−0.03	− 4.0	+17 24.8	23 13 26.3	−6 43.4	+0.4478	0.5695	+0.1380	9.4
64 Tauri	4.8	−0.02	− 4.1	+17 19.0	23 13 56.4	−6 14.4	+0.6173	0.5697	+0.1371	9.4
68 Tauri	4.2	−0.02	− 3.9	+17 48.2	23 14 32.2	−5 39.8	+0.1964	0.5698	+0.1360	9.4
BD + 20° 1105 *m*	5.9	+0.30	− 3.4	+20 51.1	25 1 47.8	+4 18.7	+0.6067	0.5772	+0.0644	10.9
d Geminorum	5.2	+0.47	− 3.6	+21 49.6	26 4 27.5	+5 59.6	+0.5101	0.5765	+0.0045	12.0
63 Geminorum	5.3	+0.54	− 3.9	+21 33.5	26 19 53.8	−3 7.7	+0.6006	0.5730	−0.0299	12.6
8 Leonis	5.9	+0.53	− 4.6	+16 41.1	29 6 3.3	+5 1.8	+0.7594	0.5449	−0.1381	15.1
37 Leonis	5.7	+0.46	− 4.5	+14 0.1	30 1 17.9	−0 20.1	+0.7757	0.5339	−0.1630	15.9
Februar										
	m	s	"	° ′	d h m	h m				d
ξ^2 Ceti	4.3	−0.99	− 8.5	+ 8 12.7	17 16 47.6	+0 11.6	+1.0496	0.5620	+0.2100	5.0
μ Ceti	4.4	−0.91	− 7.8	+ 9 52.9	18 0 11.5	+7 19.9	+0.8930	0.5626	+0.2021	5.3
δ Tauri	3.9	−0.42	− 4.5	+17 24.8	19 18 52.2	+0 29.9	+0.5790	0.5691	+0.1376	7.1
64 Tauri	4.8	−0.41	− 4.6	+17 19.0	19 19 22.3	+0 58.9	+0.7479	0.5693	+0.1367	7.1
68 Tauri	4.2	−0.41	− 4.4	+17 48.2	19 19 58.0	+1 33.3	+0.3279	0.5694	+0.1356	7.1
63 Geminorum	5.3	+0.43	− 3.0	+21 33.5	23 2 0.3	+4 46.2	+0.6791	0.5673	−0.0307	10.4
März										
	m	s	"	° ′	d h m	h m				d
21 G. Sagittarii	5.7	−0.81	+ 1.6	−22 46.8	8 5 59.9	−0 56.4	+0.8529	0.5665	−0.0498	23.6
8 Leonis	5.9	+0.61	− 3.5	+16 41.1	24 18 41.9	−2 44.7	+0.8970	0.5378	−0.1397	10.6
80 Virginis	5.8	+0.93	− 5.2	− 5 7.1	30 0 49.0	−0 15.5	+0.8161	0.5071	−0.2081	15.8
April										
	m	s	"	° ′	d h m	h m				d
131 B. Scorpii	5.6	+0.45	0.0	−19 49.2	3 0 37.1	−3 17.6	+0.4747	0.5421	−0.1170	19.8
ζ Tauri	3.0	−1.00	− 3.0	+21 6.6	16 16 51.2	+0 54.7	+0.6313	0.5878	+0.0757	4.2
d Geminorum	5.2	−0.64	− 1.4	+21 49.6	17 22 58.2	+5 52.8	+1.0931	0.5795	+0.0028	5.5
η Cancri	5.5	−0.08	− 0.6	+20 37.8	19 18 29.9	−0 9.7	+0.3882	0.5562	−0.0912	7.3
8 Leonis	5.9	+0.27	− 1.7	+16 41.1	21 0 28.8	+4 49.7	+1.1428	0.5375	−0.1410	8.5
37 Leonis	5.7	+0.47	− 2.6	+14 0.2	21 20 1.1	−0 14.6	+1.0697	0.5266	−0.1661	9.3
ν Virginis	4.2	+0.84	− 4.6	+ 6 50.2	23 18 44.7	−2 52.5	+0.2188	0.5084	−0.2039	11.3
Mai										
	m	s	"	° ′	d h m	h m				d
1 Sagittarii	5.1	+0.84	+ 2.1	−23 42.8	1 23 22.9	−4 7.5	+1.1467	0.5614	−0.0412	19.5
μ Geminorum	3.2	−1.09	− 1.7	+22 32.6	14 20 35.6	+5 44.8	+0.3376	0.5932	+0.0329	3.1
δ Geminorum	3.5	−0.85	− 0.4	+22 5.1	15 19 34.7	+3 50.5	+0.9080	0.5835	−0.0246	4.0
49 B. Cancri	5.9	−0.55	+ 0.4	+20 55.4	16 20 52.1	+4 11.7	+0.7804	0.5675	−0.0814	5.1
ν Virginis	4.2	+0.61	− 2.7	+ 6 50.2	21 1 5.7	+5 15.9	+0.4263	0.5076	−0.2049	9.2
Juni										
	m	s	"	° ′	d h m	h m				d
80 Virginis	5.8	+0.98	− 3.4	− 5 7.1	19 20 26.9	+0 45.0	+1.0348	0.5033	−0.2115	9.7
Juli										
	m	s	"	° ′	d h m	h m				d
24 B. Ceti	6.0	+0.68	+ 6.7	− 5 33.1	2 0 6.8	−5 22.0	+0.6964	0.5492	+0.2295	21.8
1 Sagittarii	5.1	+2.18	+ 1.8	−23 42.8	22 20 6.5	−2 1.1	+1.0042	0.5695	−0.0435	13.2
30 Piscium	4.7	+1.52	+11.7	− 6 19.0	29 2 0.2	−1 33.5	+0.6548	0.5541	+0.2297	19.5
33 Piscium	4.7	+1.50	+11.6	− 6 0.7	29 3 32.3	−0 4.6	+0.7001	0.5538	+0.2305	19.5
20 Ceti	4.9	+1.28	+10.1	− 1 26.4	30 1 18.3	−3 2.7	+1.1782	0.5512	+0.2361	20.5

Sternbedeckungen 1945

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern					Konjunktion in Rektaszension					Alter d. Mondes
Name	Gr.	Δα	Δδ	δ app.	Welt-Zeit	Stundenw. H	Y	x′	y′	
August										
	m	s	″	° ′	d h m	h m				d
μ Ceti	4.4	+0.77	+ 4.8	+ 9 53.1	1 3 58.4	−2 6.0	+1.2486	0.5594	+0.2090	22.6
ζ Tauri	3.0	−0.01	− 0.6	+21 6.6	4 4 58.0	−3 46.8	+0.8886	0.5855	+0.0779	25.6
Venus	−3.6	—	—	+21 29.1	4 15 45.8	+6 36.2	+1.2106	0.5405	+0.0498	26.1
17 Capricorni	5.9	+2.43	+ 9.2	−21 42.8	21 21 58.7	−0 44.9	+0.9377	0.5813	+0.1090	13.9
68 Tauri	4.2	+1.15	+ 3.6	+17 48.3	30 4 41.5	−1 8.8	+1.1417	0.5759	+0.1422	22.2
14 B. Geminorum	6.0	+0.65	− 0.2	+22 12.1	31 23 32.9	−7 54.2	+0.7315	0.5825	+0.0453	24.0
September										
	m	s	″	° ′	d h m	h m				d
η Geminorum *sq*	3.2-4.2	+0.62	− 0.4	+22 31.5	1 1 44.0	−5 48.2	+0.4897	0.5825	+0.0399	24.1
μ Geminorum	3.2	+0.59	− 0.6	+22 32.6	1 5 2.5	−2 37.1	+0.5895	0.5823	+0.0319	24.2
μ Cancri	5.4	+0.13	− 1.1	+21 44.6	3 0 45.4	−8 32.0	+0.5336	0.5707	−0.0716	26.0
80 Virginis	5.8	+0.12	+ 0.5	− 5 7.0	9 19 52.8	+5 34.1	+0.6751	0.5048	−0.2142	3.2
49 Sagittarii	5.6	+1.97	+ 3.4	−24 4.3	16 21 53.6	+2 13.3	+0.8712	0.5710	+0.0311	10.3
47 B. Arietis	5.8	+2.20	+10.3	+12 58.8	25 2 36.6	−0 12.6	+0.4448	0.5757	+0.2040	18.5
1 Tauri	5.3	+1.79	+ 3.2	+20 20.9	27 4 18.2	−0 24.0	+0.9708	0.5858	+0.1061	20.6
14 B. Geminorum	6.0	+1.50	+ 0.1	+22 12.1	28 5 9.8	−0 30.0	+0.9805	0.5853	+0.0451	21.6
Mars	0.7	—	—	+23 21.0	28 23 38.8	−6 43.4	+0.2058	0.5595	−0.0001	22.4
44 Geminorum	5.9	+1.20	− 1.9	+22 43.3	29 3 52.6	−2 39.2	+0.8333	0.5798	−0.0115	22.6
Oktober										
	m	s	″	° ′	d h m	h m				d
ψ Ophiuchi	4.6	+0.54	− 0.8	−19 54.6	10 18 48.7	+3 43.8	+0.7561	0.5312	−0.1337	4.6
κ Capricorni	4.8	+2.11	+ 8.8	−19 6.9	16 17 24.5	−2 35.7	+1.1376	0.5654	+0.1588	10.5
τ Aquarii	4.2	+2.30	+12.2	−13 52.8	17 22 34.4	+1 31.9	+1.1549	0.5635	+0.2071	11.7
85 H.^{1} Tauri	6.0	+2.69	+ 7.1	+18 36.9	23 18 9.1	−8 1.0	+0.4581	0.5939	+0.1536	17.6
234 B. Tauri	6.0	+2.69	+ 6.8	+18 55.1	23 19 55.8	−6 18.6	+0.4267	0.5943	+0.1495	17.6
ε Tauri	3.6	+2.68	+ 6.6	+19 3.7	23 21 21.9	−4 55.8	+0.4980	0.5946	+0.1463	17.7
ο Tauri	4.8	+2.54	+ 2.4	+21 53.6	24 20 19.8	−6 53.1	+0.4089	0.5971	+0.0897	18.6
87 B. Geminorum	5.8	+2.17	− 2.9	+23 40.1	26 5 18.5	+0 46.6	+0.1392	0.5900	+0.0022	20.0
Mars	0.3	—	—	+22 20.6	27 5 24.6	−0 2.8	+0.8335	0.5621	−0.0564	21.0
November										
	m	s	″	° ′	d h m	h m				d
ε Capricorni	4.7	+1.68	+ 6.5	−19 42.7	12 22 45.7	+4 38.4	+1.1574	0.5557	+0.1521	7.9
30 Piscium	4.7	+2.31	+13.1	− 6 19.0	15 16 17.9	−4 3.8	+0.5848	0.5531	+0.2378	10.7
33 Piscium	4.7	+2.32	+13.4	− 6 0.7	15 17 49.5	−2 35.2	+0.6423	0.5533	+0.2389	10.7
24 B. Ceti	6.0	+2.34	+13.4	− 5 33.0	15 20 4.4	−0 25.0	+0.7174	0.5536	+0.2403	10.8
20 Ceti	4.9	+2.52	+14.3	− 1 26.3	16 15 12.7	−5 56.2	+1.2904	0.5581	+0.2477	11.6
1 Geminorum	4.3	+3.18	− 0.6	+23 16.1	21 20 32.3	−5 26.6	+0.1765	0.6062	+0.0545	16.9
3 Geminorum *m*	5.8	+3.16	− 0.9	+23 7.4	21 22 39.5	−3 24.7	+0.4297	0.6060	+0.0485	16.9
η Geminorum *sq*	3.2-4.2	+3.13	− 1.2	+22 31.5	22 0 36.5	−1 32.6	+1.1187	0.6056	+0.0430	17.0
36 B. Geminorum	6.0	+3.12	− 2.1	+23 21.5	22 4 38.2	+2 19.2	+0.4360	0.6047	+0.0316	17.2
58 Geminorum	6.0	+2.88	− 6.2	+23 3.1	23 2 52.9	−0 20.4	+0.7690	0.5951	−0.0299	18.1
Mars	−0.2	—	—	+21 47.8	24 3 20.1	−0 50.2	+0.5807	0.5734	−0.0909	19.1
ν Virginis	4.2	+1.25	−10.0	+ 6 50.1	28 2 42.1	−4 34.4	+0.7264	0.5090	−0.2143	23.1
Dezember										
	m	s	″	° ′	d h m	h m				d
χ Capricorni	5.3	+1.23	+ 4.2	−21 24.9	9 15 42.4	−0 11.0	+1.0550	0.5554	+0.1272	4.9
φ Capricorni	5.4	+1.26	+ 4.5	−20 52.8	9 18 53.4	+2 53.4	+0.9002	0.5546	+0.1333	5.0
30 Piscium	4.7	+2.03	+11.0	− 6 19.0	12 23 54.8	+5 20.8	+0.4780	0.5424	+0.2338	8.2
c Virginis	5.1	+1.94	−14.8	+ 3 36.9	26 4 39.1	−1 21.2	+0.2661	0.5058	−0.2222	21.4

Sternbedeckungen 1945

Ein- und Austritte für Berlin-Babelsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1945			m		h m	°	m	m	d
Jan.	18	30 Piscium	4.7	E.	16 8.0	80	—1.4	—0.2	4.5
	18	33 Piscium	4.7	E.	18 11.4	116	—1.5	—2.6	4.6
	19	20 Ceti	4.9	E.	14 39.4	131	—2.8	—1.1	5.4
	21	μ Ceti	4.4	E.	17 47.5	89	—1.6	0.0	7.5
	25	+ 20° 1105 *m*	5.9	E.	2 24.1	73	—0.2	—1.1	10.9
	26	63 Geminorum	5.3	E.	18 33.9	98	—0.9	+1.2	12.6
Febr.	19	δ Tauri	3.9	E.	18 44.0	86	—1.4	—0.5	7.1
	19	64 Tauri	4.8	E.	19 33.0	130	—1.4	—3.3	7.1
	19	68 Tauri	4.2	E.	20 25.9	35	—0.8	+0.8	7.2
	23	63 Geminorum	5.3	E.	2 37.5	71	—0.1	—1.2	10.4
April	19	η Cancri	5.5	E.	18 8.8	67	—1.8	+0.8	7.3
	21	8 Leonis	5.9	E.	1 21.3	151	+0.5	—2.1	8.6
Mai	15	δ Geminorum	3.5	E.	20 17.2	136	+0.2	—2.3	4.0
	16	49 B. Cancri	5.9	E.	21 27.7	93	—0.1	—1.5	5.1
Juni	19	80 Virginis	5.8	E.	20 34.0	130	—1.1	—1.6	9.7
Juli	22	1 Sagittarii	5.1	E.	19 6.2	116	—1.0	+0.6	13.2
	29	30 Piscium	4.7	A.	2 21.1	295	—2.2	—0.6	19.5
	29	33 Piscium	4.7	A.	4 29.9	253	—1.2	—0.4	19.6
	30	20 Ceti	4.9	A.	0 46.3	202	—0.5	+2.1	20.4
Aug.	4	ζ Tauri	3.0	A.	4 21.6	209	—0.1	+2.9	25.6
	21	17 Capricorni	5.9	E.	21 24.5	73	—1.4	+0.4	13.9
Sept.	25	147 B. Arietis	5.8	A.	3 30.1	273	—1.4	—0.9	18.5
Okt.	16	κ Capricorni	4.8	E.	16 10.8	101	—1.0	+1.2	10.5
Nov.	15	24 B. Ceti	6.0	E.	19 46.9	44	—1.0	+0.8	10.8
	21	3 Geminorum *m*	5.8	A.	22 22.4	299	—1.3	+0.2	16.9
	24	Mars	—0.2	E.	2 45.8	118	—1.4	—0.8	19.1
	24	Mars	—0.2	A.	4 0.5	268	—1.5	—0.3	19.2
	28	ν Virginis	4.2	A.	2 7.0	249	—0.7	+2.8	23.1
Dez.	9	χ Capricorni	5.3	E.	15 18.3	100	—1.8	—0.3	4.8

Ein- und Austritte für Königsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1945			m		h m	°	m	m	d
Jan.	18	30 Piscium	4.7	E.	16 16.8	83	—1.2	—0.6	4.5
	18	33 Piscium	4.7	E.	18 15.1	116	—1.2	—2.7	4.6
	21	μ Ceti	4.4	E.	17 58.6	90	—1.5	—0.4	7.5
	25	+ 20° 1105 *m*	5.9	E.	2 23.0	61	—0.1	—1.0	10.9
	26	63 Geminorum	5.3	E.	18 43.2	97	—1.0	+1.1	12.6
Febr.	19	δ Tauri	3.9	E.	18 52.6	81	—1.2	—0.6	7.1
	19	64 Tauri	4.8	E.	19 35.4	120	—1.0	—2.5	7.1
	19	68 Tauri	4.2	E.	20 36.6	21	—1.0	+1.7	7.2
	23	63 Geminorum	5.3	E.	2 35.4	61	0.0	—1.1	10.4
April	19	η Cancri	5.5	E.	18 24.9	51	—2.0	+1.4	7.3
Mai	15	δ Geminorum	3.5	E.	20 10.8	124	+0.2	—2.0	4.0
	16	49 B. Cancri	5.9	E.	21 24.6	84	0.0	—1.4	5.1

Sternbedeckungen 1945

Ein- und Austritte für Königsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1945			m		h m	°	m	m	d
Juni	19	80 Virginis	5.8	E.	20 38.3	122	—1.0	—1.6	9.7
Juli	22	1 Sagittarii	5.1	E.	19 15.7	107	—1.2	+0.6	13.2
	29	33 Piscium	4.7	A.	4 36.6	251	—0.9	—0.6	19.6
	30	20 Ceti	4.9	A.	0 54.6	197	—0.5	+2.0	20.4
Aug.	4	ζ Tauri	3.0	A.	4 29.5	206	—0.2	+3.1	25.6
	21	17 Capricorni	5.9	E.	21 34.9	74	—1.3	0.0	13.9
	31	14 B. Geminorum	6.0	A.	23 1.5	293	+0.1	+1.1	24.0
Sept.	1	η Geminorum	3.2—4.2	A.	0 57.7	336	—1.9	—1.7	24.0
	25	147 B. Arietis	5.8	A.	3 37.3	277	—1.2	—1.3	18.6
Okt.	16	ϰ Capricorni	4.8	E.	16 21.4	100	—1.2	+1.0	10.5
	27	Mars	0.3	E.	5 43.1	165	—0.3	—4.9	21.0
	27	Mars	0.3	A.	6 14.8	217	—2.1	+2.1	21.1
Nov.	15	24 B. Ceti	6.0	E.	19 55.5	48	—0.9	+0.5	10.8
	21	3 Geminorum *m*	5.8	A.	22 32.3	299	—1.3	0.0	16.9
	23	58 Geminorum	6.0	A.	3 37.4	222	—1.9	+1.5	18.2
	24	Mars	—0.2	E.	2 54.3	107	—1.4	—0.7	19.1
	24	Mars	—0.2	A.	4 9.2	280	—1.2	—1.0	19.2
	28	ν Virginis	4.2	A.	2 18.7	261	—0.9	+2.0	23.1
Dez.	9	χ Capricorni	5.3	E.	15 29.6	104	—1.6	—0.8	4.8

Ein- und Austritte für Straßburg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1945			m		h m	°	m	m	d
Jan.	18	30 Piscium	4.7	E.	16 0.1	81	—1.6	0.0	4.5
	18	33 Piscium	4.7	E.	18 13.8	126	—2.3	—3.7	4.6
	19	20 Ceti	4.9	E.	14 28.1	129	—2.9	—0.8	5.4
	21	μ Ceti	4.4	E.	17 38.1	93	—1.8	+0.4	7.5
	25	+ 20° 1105 *m*	5.9	E.	2 27.8	87	—0.2	—1.3	10.9
	26	63 Geminorum	5.3	E.	18 25.2	104	—0.8	+0.7	12.6
Febr.	19	δ Tauri	3.9	E.	18 37.5	96	—1.8	—0.7	7.1
	19	68 Tauri	4.2	E.	20 16.9	50	—1.3	+0.5	7.1
	23	63 Geminorum	5.3	E.	2 41.9	83	—0.1	—1.3	10.4
April	2	131 B. Scorpii	5.6	A.	23 46.7	343	+0.2	—1.0	19.8
	19	η Cancri	5.5	E.	17 57.0	84	—1.9	+0.4	7.2
	21	8 Leonis	5.9	E.	1 32.8	161	+0.6	—2.2	8.6
Mai	15	δ Geminorum	3.5	E.	20 28.7	153	+0.5	—2.9	4.1
	16	49 B. Cancri	5.9	E.	21 33.3	103	—0.1	—1.6	5.1
Juni	19	80 Virginis	5.8	E.	20 34.3	140	—1.1	—1.8	9.7
Juli	22	1 Sagittarii	5.1	E.	18 59.1	127	—0.8	+0.4	13.2
	29	30 Piscium	4.7	A.	2 10.7	295	—2.4	—0.4	19.5
	29	33 Piscium	4.7	A.	4 24.3	250	—1.4	—0.1	19.6
	30	20 Ceti	4.9	A.	0 35.4	202	—0.5	+2.3	20.4

Sternbedeckungen 1945

Ein- und Austritte für Straßburg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1945			m		h m	°	m	m	d
Aug.	4	ζ Tauri	3.0	A.	4 10.4	205	+0.2	+3.0	25.6
	21	17 Capricorni	5.9	E.	21 14.4	74	—1.6	+0.7	13.9
Sept.	16	49 Sagittarii	5.6	E.	22 15.6	93	—1.1	—1.3	10.3
	25	147 B Arietis	5.8	A.	3 24.6	265	—1.6	—0.3	18.5
Okt.	16	κ Capricorni	4.8	E.	16 1.3	107	—0.9	+0.9	10.5
Nov.	15	24 B Ceti	6.0	E.	19 37.3	44	—1.1	+1.1	10.8
	21	3 Geminorum *m*	5.8	A.	22 14.2	294	—1.2	+0.5	16.9
	24	Mars	—0.2	E.	2 41.8	132	—1.5	—1.4	19.1
	24	Mars	—0.2	A.	3 50.7	251	—1.9	+0.8	19.2
	28	ν Virginis	4.2	A.	1 49.6	225	—0.4	+5.5	23.1
Dez.	9	χ Capricorni	5.3	E.	15 9.2	100	—1.9	—0.1	4.8

Ein- und Austritte für Wien

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1945			m		h m	°	m	m	d
Jan.	18	30 Piscium	4.7	E.	16 15.1	94	—1.8	—0.7	4.5
	21	μ Ceti	4.4	E.	17 55.3	106	—2.1	—1.0	7.5
	25	+ 20° 1105 *m*	5.9	E.	2 29.3	80	0.0	—1.1	10.9
	26	63 Geminorum	5.3	E.	18 33.5	113	—1.2	+0.6	12.6
Febr.	19	δ Tauri	3.9	E.	18 52.6	101	—1.6	—1.3	7.1
	19	68 Tauri	4.2	E.	20 27.1	51	—1.2	+0.2	7.2
	23	63 Geminorum	5.3	E.	2 42.2	75	+0.1	—1.1	10.4
April	2	131 B Scorpii	5.6	A.	23 42.6	2	+1.2	—3.2	19.8
	19	η Cancri	5.5	E.	18 13.3	79	—1.9	+0.1	7.3
Mai	15	δ Geminorum	3.5	E.	20 25.8	142	+0.4	—2.4	4.1
	16	49 B Cancri	5.9	E.	21 33.9	97	0.0	—1.5	5.1
Juni	19	80 Virginis	5.8	E.	20 45.1	132	—1.2	—1.8	9.7
Juli	22	1 Sagittarii	5.1	E.	19 7.6	119	—1.2	+0.4	13.2
	29	30 Piscium	4.7	A.	2 30.0	278	—2.0	—0.3	19.5
	29	33 Piscium	4.7	A.	4 34.7	239	—1.1	0.0	19.6
	30	20 Ceti	4.9	A.	0 38.6	191	—0.4	+2.5	20.4
Aug.	4	ζ Tauri	3.0	A.	4 5.7	185	+1.0	+5.1	25.6
	21	17 Capricorni	5.9	E.	21 27.9	79	—1.6	+0.2	13.9
Sept.	1	η Geminorum *sq*	3.2—4.2	A.	0 55.1	316	—0.8	+0.1	24.0
	25	147 B Arietis	5.8	A.	3 37.5	257	—1.4	—0.4	18.6
Okt.	16	κ Capricorni	4.8	E.	16 10.0	106	—1.2	+1.0	10.5
Nov.	15	24 B Ceti	6.0	E.	19 47.3	56	—1.3	+0.6	10.8
	21	3 Geminorum *m*	5.8	A.	22 24.6	283	—1.3	+0.6	16.9
	24	Mars	—0.2	E.	2 55.6	131	—1.5	—1.6	19.1
	24	Mars	—0.2	A.	4 6.7	257	—1.8	0.0	19.2
	28	ν Virginis	4.2	A.	1 53.4	224	—1.0	+6.3	23.1
Dez.	9	χ Capricorni	5.3	E.	15 26.6	110	—2.1	—0.8	4.8

Mond 1945

0h Welt-Zeit	Mondbewegung				Lage des Mondäquators gegen den Erdäquator							
	☊	$L_☾$	$\tilde{\omega}_☾$	$M_☾$	i		Δ		☊′		$\Delta - ☋$	
1945	°	°	°	°	°		°		°		°	
Jan. −1	108.9125	97.9291	5.20	92.73	23.986	13	292.189	518	356.417	13	3.281	12
+9	108.3829	229.6930	6.31	223.38	23.973	13	291.671	518	356.404	13	3.293	12
19	107.8534	1.4570	7.43	354.03	23.960	13	291.153	518	356.391	12	3.305	12
29	107.3238	133.2210	8.54	124.68	23.947	14	290.635	518	356.379	12	3.317	11
Febr. 8	106.7943	264.9849	9.65	255.33	23.933	13	290.117	518	356.367	12	3.328	11
18	106.2648	36.7489	10.77	25.98	23.920	14	289.599	519	356.355	12	3.339	11
28	105.7352	168.5129	11.88	156.63	23.906	13	289.080	519	356.343	11	3.350	11
März 10	105.2057	300.2768	13.00	287.28	23.893	14	288.561	519	356.332	11	3.361	10
20	104.6762	72.0408	14.11	57.93	23.879	13	288.042	520	356.321	11	3.371	10
30	104.1466	203.8048	15.22	188.58	23.866	14	287.522	520	356.310	11	3.381	10
April 9	103.6171	335.5687	16.34	319.23	23.852	13	287.002	520	356.299	10	3.391	9
19	103.0875	107.3327	17.45	89.88	23.839	14	286.482	520	356.289	10	3.400	9
29	102.5580	239.0967	18.57	220.53	23.825	14	285.962	521	356.279	10	3.409	9
Mai 9	102.0285	10.8606	19.68	351.18	23.811	13	285.441	521	356.269	9	3.418	9
19	101.4989	142.6246	20.79	121.83	23.798	14	284.920	521	356.260	9	3.427	8
29	100.9694	274.3886	21.91	252.48	23.784	14	284.399	521	356.251	8	3.435	8
Juni 8	100.4398	46.1525	23.02	23.13	23.770	13	283.878	522	356.243	8	3.443	8
18	99.9103	177.9165	24.14	153.78	23.757	14	283.356	522	356.235	8	3.451	7
28	99.3808	309.6805	25.25	284.43	23.743	14	282.834	522	356.227	8	3.458	7
Juli 8	98.8512	81.4444	26.36	55.08	23.729	14	282.312	523	356.219	7	3.465	7
18	98.3217	213.2084	27.48	185.73	23.715	14	281.789	523	356.212	7	3.472	7
28	97.7921	344.9724	28.59	316.38	23.701	14	281.266	523	356.205	7	3.479	6
Aug. 7	97.2626	116.7363	29.71	87.03	23.687	14	280.743	524	356.198	6	3.485	6
17	96.7331	248.5003	30.82	217.68	23.673	14	280.219	524	356.192	6	3.491	6
27	96.2035	20.2643	31.93	348.33	23.659	14	279.695	524	356.186	6	3.497	6
Sept. 6	95.6740	152.0282	33.05	118.98	23.645	14	279.171	524	356.180	6	3.503	5
16	95.1444	283.7922	34.16	249.63	23.631	14	278.647	525	356.174	5	3.508	5
26	94.6149	55.5562	35.28	20.28	23.617	14	278.122	525	356.169	5	3.513	5
Okt. 6	94.0854	187.3201	36.39	150.93	23.603	14	277.597	525	356.164	5	3.518	4
16	93.5558	319.0841	37.50	281.58	23.589	14	277.072	525	356.159	4	3.522	4
26	93.0263	90.8481	38.62	52.23	23.575	14	276.547	526	356.155	4	3.526	4
Nov. 5	92.4967	222.6120	39.73	182.88	23.561	14	276.021	526	356.151	4	3.530	3
15	91.9672	354.3760	40.85	313.53	23.547	14	275.495	526	356.147	3	3.533	3
25	91.4377	126.1400	41.96	84.18	23.533	15	274.969	527	356.144	3	3.536	3
Dez. 5	90.9081	257.9039	43.08	214.83	23.518	14	274.442	527	356.141	2	3.539	3
15	90.3786	29.6679	44.19	345.48	23.504	14	273.915	527	356.139	2	3.542	2
25	89.8491	161.4319	45.30	116.13	23.490	15	273.388	527	356.137	2	3.544	2
35	89.3195	293.1959	46.42	246.78	23.475		272.861		356.135		3.546	

Tag		0h Welt-Zeit $\alpha_{☾}-\alpha_k$	Δ¹	Δ²	$\delta_{☾}-\delta_k$	Δ¹	Δ²	log sin p_k	Δ¹	Δ²
1945		s	s	s	″	″	″			
Jan.	0	−10.87	+0.63	+0.11	+ 70.8	−13.6	−2.0	8.21825	−484	− 7
	1	−10.24	+0.71	+0.08	+ 57.2	−15.5	−1.9	8.21341	−455	+ 29
	2	− 9.53	+0.80	+0.09	+ 41.7	−16.8	−1.3	8.20886	−392	+ 63
	3	− 8.73	+0.89	+0.09	+ 24.9	−17.3	−0.5	8.20494	−299	+ 93
	4	− 7.84	+0.99	+0.10	+ 7.6	−16.5	+0.8	8.20195	−180	+119
	5	− 6.85	+1.09	+0.10	− 8.9	−14.5	+2.0	8.20015	− 43	+137
	6	− 5.76	+1.20	+0.11	− 23.4	−11.0	+3.5	8.19972	+ 99	+142
	7	− 4.56	+1.29	+0.09	− 34.4	− 5.9	+5.1	8.20071	+238	+139
	8	− 3.27		+0.09	− 40.3		+5.9	8.20309		+125
Jan.	21	−12.37	−0.36		+108.3	− 1.9		8.23687	−276	
	22	−12.73	−0.03	+0.33	+106.4	− 2.9	−1.0	8.23411	−305	− 29
	23	−12.76	+0.25	+0.28	+103.5	− 4.3	−1.4	8.23106	−327	− 22
	24	−12.51	+0.46	+0.21	+ 99.2	− 6.2	−1.9	8.22779	−346	− 19
	25	−12.05	+0.61	+0.15	+ 93.0	− 8.6	−2.4	8.22433	−362	− 16
	26	−11.44	+0.67	+0.06	+ 84.4	−11.1	−2.5	8.22071	−376	− 14
	27	−10.77	+0.69	+0.02	+ 73.3	−13.3	−2.2	8.21695	−382	− 6
	28	−10.08	+0.69	0.00	+ 60.0	−15.1	−1.8	8.21313	−374	+ 8
	29	− 9.39	+0.72	+0.03	+ 44.9	−16.3	−1.2	8.20939	−348	+ 26
	30	− 8.67	+0.78	+0.06	+ 28.6	−16.8	−0.5	8.20591	−299	+ 49
	31	− 7.89	+0.89	+0.11	+ 11.8	−16.3	+0.5	8.20292	−227	+ 72
Febr.	1	− 7.00	+1.04	+0.15	− 4.5	−14.8	+1.5	8.20065	−134	+ 93
	2	− 5.96	+1.19	+0.15	− 19.3	−12.0	+2.8	8.19931	− 20	+114
	3	− 4.77	+1.33	+0.14	− 31.3	− 7.7	+4.3	8.19911	+110	+130
	4	− 3.44	+1.44	+0.11	− 39.0	− 2.1	+5.6	8.20021	+246	+136
	5	− 2.00	+1.44	0.00	− 41.1	+ 4.7	+6.8	8.20267	+380	+134
	6	− 0.56		−0.16	− 36.4		+7.6	8.20647		+122
Febr.	19	−14.17	+0.13		+ 97.8	− 2.7		8.23428	−499	
	20	−14.04	+0.49	+0.36	+ 95.1	− 3.8	−1.1	8.22929	−491	+ 8
	21	−13.55	+0.75	+0.26	+ 91.3	− 6.0	−2.2	8.22438	−464	+ 27
	22	−12.80	+0.90	+0.15	+ 85.3	− 8.8	−2.8	8.21974	−428	+ 36
	23	−11.90	+0.92	+0.02	+ 76.5	−11.7	−2.9	8.21546	−388	+ 40
	24	−10.98	+0.89	−0.03	+ 64.8	−14.0	−2.3	8.21158	−348	+ 40
	25	−10.09	+0.85	−0.04	+ 50.8	−15.6	−1.6	8.20810	−307	+ 41
	26	− 9.24	+0.85	0.00	+ 35.2	−16.3	−0.7	8.20503	−261	+ 46
	27	− 8.39	+0.89	+0.04	+ 18.9	−16.0	+0.3	8.20242	−209	+ 52
	28	− 7.50	+0.99	+0.10	+ 2.9	−14.8	+1.2	8.20033	−147	+ 62
März	1	− 6.51	+1.13	+0.14	− 11.9	−12.4	+2.4	8.19886	− 71	+ 76
	2	− 5.38	+1.30	+0.17	− 24.3	− 8.7	+3.7	8.19815	+ 21	+ 92
	3	− 4.08	+1.46	+0.16	− 33.0	− 3.9	+4.8	8.19836	+126	+105
	4	− 2.62	+1.55	+0.09	− 36.9	+ 2.2	+6.1	8.19962	+242	+116
	5	− 1.07	+1.53	−0.02	− 34.7	+ 9.3	+7.1	8.20204	+364	+122
	6	+ 0.46	+1.31	−0.22	− 25.4	+16.7	+7.4	8.20568	+486	+122
	7	+ 1.77	+0.84	−0.47	− 8.7	+23.4	+6.7	8.21054	+595	+109
	8	+ 2.61		−0.73	+ 14.7		+4.7	8.21649		+ 83

Mondkrater Mösting A. 1945

Tag		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
		0h Welt-Zeit								
1945		s	s	s	″	″	″			
März	21	−14.37			+ 84.1			8.22417		
	22	−13.56	+0.81	+0.18	+ 77.9	− 6.2	−2.9	8.21822	−595	+ 67
	23	−12.57	+0.99	+0.05	+ 68.8	− 9.1	−2.8	8.21294	−528	+ 79
	24	−11.53	+1.04	−0.02	+ 56.9	−11.9	−2.3	8.20845	−449	+ 82
	25	−10.51	+1.02	−0.03	+ 42.7	−14.2	−1.2	8.20478	−367	+ 79
	26	− 9.52	+0.99	0.00	+ 27.3	−15.4	−0.2	8.20190	−288	+ 76
	27	− 8.53	+0.99	+0.04	+ 11.7	−15.6	+0.9	8.19978	−212	+ 71
	28	− 7.50	+1.03	+0.10	− 3.0	−14.7	+2.1	8.19837	−141	+ 70
	29	− 6.37	+1.13	+0.12	− 15.6	−12.6	+3.3	8.19766	− 71	+ 71
	30	− 5.12	+1.25	+0.14	− 24.9	− 9.3	+4.4	8.19766	0	+ 74
	31	− 3.73	+1.39	+0.12	− 29.8	− 4.9	+5.4	8.19840	+ 74	+ 81
April	1	− 2.22	+1.51	+0.04	− 29.3	+ 0.5	+6.5	8.19995	+155	+ 89
	2	− 0.67	+1.55	−0.09	− 22.3	+ 7.0	+6.9	8.20239	+244	+ 97
	3	+ 0.79	+1.46	−0.30	− 8.4	+13.9	+6.7	8.20580	+341	+100
	4	+ 1.95	+1.16	−0.53	+ 12.2	+20.6	+5.3	8.21021	+441	+ 96
	5	+ 2.58	+0.63	−0.73	+ 38.1	+25.9	+2.6	8.21558	+537	+ 83
	6	+ 2.48	−0.10	−0.80	+ 66.6	+28.5	−0.8	8.22178	+620	+ 59
	7	+ 1.58	−0.90	−0.71	+ 94.3	+27.7	−4.7	8.22857	+679	+ 22
		s	s	s	″	″	″			
April	19	−13.81			+ 69.8			8.21893		
	20	−12.92	+0.89	+0.11	+ 60.3	− 9.5	−2.6	8.21283	−610	+ 96
	21	−11.92	+1.00	+0.04	+ 48.2	−12.1	−1.9	8.20769	−514	+108
	22	−10.88	+1.04	+0.02	+ 34.2	−14.0	−0.8	8.20363	−406	+109
	23	− 9.82	+1.06	+0.04	+ 19.4	−14.8	+0.4	8.20066	−297	+106
	24	− 8.72	+1.10	+0.05	+ 5.0	−14.4	+1.6	8.19875	−191	+ 97
	25	− 7.57	+1.15	+0.09	− 7.8	−12.8	+2.9	8.19781	− 94	+ 86
	26	− 6.33	+1.24	+0.10	− 17.7	− 9.9	+4.1	8.19773	− 8	+ 76
	27	− 4.99	+1.34	+0.09	− 23.5	− 5.8	+5.1	8.19841	+ 68	+ 69
	28	− 3.56	+1.43	+0.03	− 24.2	− 0.7	+6.1	8.19978	+137	+ 66
	29	− 2.10	+1.46	−0.06	− 18.8	+ 5.4	+6.5	8.20181	+203	+ 64
	30	− 0.70	+1.40	−0.22	− 6.9	+11.9	+6.3	8.20448	+267	+ 64
Mai	1	+ 0.48	+1.18	−0.39	+ 11.3	+18.2	+5.2	8.20779	+331	+ 65
	2	+ 1.27	+0.79	−0.57	+ 34.7	+23.4	+3.2	8.21175	+396	+ 66
	3	+ 1.49	+0.22	−0.64	+ 61.3	+26.6	+0.4	8.21637	+462	+ 62
	4	+ 1.07	−0.42	−0.59	+ 88.3	+27.0	−2.9	8.22161	+524	+ 47
	5	+ 0.06	−1.01	−0.45	+112.4	+24.1	−5.5	8.22732	+571	+ 23
	6	− 1.40	−1.46	−0.24	+131.0	+18.6	−7.3	8.23326	+594	− 12
		s	s	s	″	″	″			
Mai	19	−11.82			+ 37.8			8.20824		
	20	−10.84	+0.98	+0.09	+ 24.3	−13.5	−0.3	8.20392	−432	+125
	21	− 9.77	+1.07	+0.08	+ 10.5	−13.8	+0.9	8.20085	−307	+126
	22	− 8.62	+1.15	+0.08	− 2.4	−12.9	+2.4	8.19904	−181	+121
	23	− 7.39	+1.23	+0.09	− 12.9	−10.5	+3.7	8.19844	− 60	+107
	24	− 6.07	+1.32	+0.07	− 19.7	− 6.8	+4.9	8.19891	+ 47	+ 91
	25	− 4.68	+1.39	+0.01	− 21.6	− 1.9	+5.8	8.20029	+138	+ 74
	26	− 3.28	+1.40	−0.08	− 17.7	+ 3.9	+6.4	8.20241	+212	+ 59
	27	− 1.96	+1.32	−0.21	− 7.4	+10.3	+6.2	8.20512	+271	+ 45

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1945		s	s	s	″	″	″			
Mai	27	− 1.96	+1.11	−0.21	− 7.4	+16.5	+6.2	8.20512	+316	+ 45
	28	− 0.85	+0.73	−0.38	+ 9.1	+21.6	+5.1	8.20828	+351	+ 35
	29	− 0.12	+0.22	−0.51	+ 30.7	+24.8	+3.2	8.21179	+379	+ 28
	30	+ 0.10	−0.34	−0.56	+ 55.5	+25.5	+0.7	8.21558	+403	+ 24
	31	− 0.24	−0.83	−0.49	+ 81.0	+23.3	−2.2	8.21961	+423	+ 20
Juni	1	− 1.07	−1.17	−0.34	+104.3	+18.9	−4.4	8.22384	+436	+ 13
	2	− 2.24	−1.32	−0.15	+123.2	+13.0	−5.9	8.22820	+438	+ 2
	3	− 3.56	−1.34	−0.02	+136.2	+ 6.6	−6.4	8.23258	+423	− 15
	4	− 4.90		+0.07	+142.8		−6.4	8.23681		− 39
		s	s	s	″	″	″			
Juni	18	− 9.26	+1.18		+ 0.9	−10.9		8.20146	−164	
	19	− 8.08	+1.31	+0.13	− 10.0	− 7.9	+3.0	8.19982	− 30	+134
	20	− 6.77	+1.39	+0.08	− 17.9	− 3.4	+4.5	8.19952	+ 96	+126
	21	− 5.38	+1.41	+0.02	− 21.3	+ 2.2	+5.6	8.20048	+206	+110
	22	− 3.97	+1.34	−0.07	− 19.1	+ 8.5	+6.3	8.20254	+294	+ 88
	23	− 2.63	+1.12	−0.22	− 10.6	+14.9	+6.4	8.20548	+358	+ 64
	24	− 1.51	+0.72	−0.40	+ 4.3	+20.5	+5.6	8.20906	+397	+ 39
	25	− 0.79	+0.17	−0.55	+ 24.8	+24.0	+3.5	8.21303	+412	+ 15
	26	− 0.62	−0.43	−0.60	+ 48.8	+24.8	+0.8	8.21715	+406	− 6
	27	− 1.05	−0.95	−0.52	+ 73.6	+22.7	−2.1	8.22121	+385	− 21
	28	− 2.00	−1.28	−0.33	+ 96.3	+18.2	−4.5	8.22506	+354	− 31
	29	− 3.28	−1.37	−0.09	+114.5	+12.6	−5.6	8.22860	+317	− 37
	30	− 4.65	−1.29	+0.08	+127.1	+ 6.9	−5.7	8.23177	+277	− 40
Juli	1	− 5.94	−1.12	+0.17	+134.0	+ 1.6	−5.3	8.23454	+233	− 44
	2	− 7.06	−0.93	+0.19	+135.6	− 3.1	−4.7	8.23687	+186	− 47
	3	− 7.99	−0.76	+0.17	+132.5	− 6.9	−3.8	8.23873	+127	− 59
	4	− 8.75		+0.12	+125.6		−3.0	8.24000		− 76
		s	s	s	″	″	″			
Juli	17	− 7.15	+1.39		− 16.0	− 4.8		8.20014	+ 2	
	18	− 5.76	+1.47	+0.08	− 20.8	+ 0.2	+5.0	8.20016	+139	+137
	19	− 4.29	+1.45	−0.02	− 20.6	+ 6.3	+6.1	8.20155	+264	+125
	20	− 2.84	+1.28	−0.17	− 14.3	+13.0	+6.7	8.20419	+372	+108
	21	− 1.56	+0.91	−0.37	− 1.3	+19.1	+6.1	8.20791	+452	+ 80
	22	− 0.65	+0.34	−0.57	+ 17.8	+23.6	+4.5	8.21243	+499	+ 47
	23	− 0.31	−0.37	−0.71	+ 41.4	+25.4	+1.8	8.21742	+510	+ 11
	24	− 0.68	−1.04	−0.67	+ 66.8	+23.5	−1.9	8.22252	+484	− 26
	25	− 1.72	−1.52	−0.48	+ 90.3	+18.8	−4.7	8.22736	+426	− 58
	26	− 3.24	−1.71	−0.19	+109.1	+12.5	−6.3	8.23162	+344	− 82
	27	− 4.95	−1.63	+0.08	+121.6	+ 6.0	−6.5	8.23506	+248	− 96
	28	− 6.58	−1.40	+0.23	+127.6	+ 0.5	−5.5	8.23754	+151	− 97
	29	− 7.98	−1.11	+0.29	+128.1	− 3.5	−4.0	8.23905	+ 60	− 91
	30	− 9.09	−0.83	+0.28	+124.6	− 6.4	−2.9	8.23965	− 19	− 79
	31	− 9.92	−0.59	+0.24	+118.2	− 8.3	−1.9	8.23946	− 87	− 68
Aug.	1	−10.51	−0.39	+0.20	+109.9	− 9.4	−1.1	8.23859	−147	− 60
	2	−10.90		+0.15	+100.5		−0.7	8.23712		− 52

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1945		s	s	s	"	"	"			
Aug.	16	− 3.02			− 15.5			8.20161		
	17	− 1.52	+1.50	−0.26	− 5.0	+10.5	+6.5	8.20465	+304	+123
	18	− 0.28	+1.24	−0.50	+ 12.0	+17.0	+5.6	8.20892	+427	+100
	19	+ 0.46	+0.74	−0.71	+ 34.6	+22.6	+3.3	8.21419	+527	+ 66
	20	+ 0.49	+0.03	−0.80	+ 60.5	+25.9	−0.2	8.22012	+593	+ 25
	21	− 0.28	−0.77	−0.70	+ 86.2	+25.7	−4.1	8.22630	+618	− 22
	22	− 1.75	−1.47	−0.44	+107.8	+21.6	−6.8	8.23226	+596	− 73
	23	− 3.66	−1.91	−0.12	+122.6	+14.8	−8.0	8.23749	+523	−116
	24	− 5.69	−2.03	+0.13	+129.4	+ 6.8	−7.2	8.24156	+407	−147
	25	− 7.59	−1.90	+0.26	+129.0	− 0.4	−5.3	8.24416	+260	−160
	26	− 9.23	−1.64	+0.33	+123.3	− 5.7	−3.1	8.24516	+100	−152
	27	−10.54	−1.31	+0.33	+114.5	− 8.8	−1.1	8.24464	− 52	−131
	28	−11.52	−0.98	+0.31	+104.6	− 9.9	+0.1	8.24281	−183	−102
	29	−12.19	−0.67	+0.28	+ 94.8	− 9.8	+0.8	8.23996	−285	− 68
	30	−12.58	−0.39	+0.25	+ 85.8	− 9.0	+0.7	8.23643	−353	− 38
	31	−12.72	−0.14	+0.20	+ 77.5	− 8.3	+0.3	8.23252	−391	− 18
Sept.	15	+ 0.75			+ 30.0			8.20847		
	16	+ 1.34	+0.59	−0.74	+ 55.1	+25.1	+1.8	8.21402	+555	+ 90
	17	+ 1.19	−0.15	−0.80	+ 82.0	+26.9	−1.9	8.22047	+645	+ 51
	18	+ 0.24	−0.95	−0.65	+107.0	+25.0	−5.5	8.22743	+696	+ 1
	19	− 1.36	−1.60	−0.40	+126.5	+19.5	−8.3	8.23440	+697	− 58
	20	− 3.36	−2.00	−0.13	+137.7	+11.2	−9.0	8.24079	+639	−119
	21	− 5.49	−2.13	+0.08	+139.9	+ 2.2	−8.0	8.24599	+520	−172
	22	− 7.54	−2.05	+0.20	+134.1	− 5.8	−5.7	8.24947	+348	−204
	23	− 9.39	−1.85	+0.26	+122.6	−11.5	−2.4	8.25091	+144	−211
	24	−10.98	−1.59	+0.29	+108.7	−13.9	+0.2	8.25024	− 67	−191
	25	−12.28	−1.30	+0.32	+ 95.0	−13.7	+2.1	8.24766	−258	−153
	26	−13.26	−0.98	+0.35	+ 83.4	−11.6	+2.6	8.24355	−411	−103
	27	−13.89	−0.63	+0.37	+ 74.4	− 9.0	+2.1	8.23841	−514	− 52
	28	−14.15	−0.26	+0.35	+ 67.5	− 6.9	+0.9	8.23275	−566	− 7
	29	−14.06	+0.09	+0.27	+ 61.5	− 6.0	−0.3	8.22702	−573	+ 25
Okt.	14	+ 1.48			+ 77.3			8.21286		
	15	+ 1.20	−0.28	−0.65	+103.7	+26.4	−3.3	8.21912	+626	+ 73
	16	+ 0.27	−0.93	−0.50	+126.8	+23.1	−6.3	8.22611	+699	+ 32
	17	− 1.16	−1.43	−0.32	+143.6	+16.8	−8.5	8.23342	+731	− 24
	18	− 2.91	−1.75	−0.13	+151.9	+ 8.3	−9.3	8.24049	+707	− 89
	19	− 4.79	−1.88	−0.01	+150.9	− 1.0	−8.5	8.24667	+618	−153
	20	− 6.68	−1.89	+0.05	+141.4	− 9.5	−6.1	8.25132	+465	−207
	21	− 8.52	−1.84	+0.10	+125.8	−15.6	−2.7	8.25390	+258	−239
	22	−10.26	−1.74	+0.14	+107.5	−18.3	+0.8	8.25409	+ 19	−239

Tag		0ʰ Welt-Zeit								
		$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1945		s	s	s	"	"	"			
Okt.	22	−10.26	−1.60	+0.14	+107.5	−17.5	+0.8	8.25409	−220	−239
	23	−11.86	−1.36	+0.24	+ 90.0	−14.1	+3.4	8.25189	−426	−206
	24	−13.22	−1.01	+0.35	+ 75.9	− 9.7	+4.4	8.24763	−578	−152
	25	−14.23	−0.56	+0.45	+ 66.2	− 6.3	+3.4	8.24185	−668	− 90
	26	−14.79	−0.09	+0.47	+ 59.9	− 4.8	+1.5	8.23517	−695	− 27
	27	−14.88	+0.32	+0.41	+ 55.1	− 5.1	−0.3	8.22822	−672	+ 23
	28	−14.56	+0.61	+0.29	+ 50.0	− 6.5	−1.4	8.22150	−611	+ 61
	29	−13.95		+0.20	+ 43.5		−1.7	8.21539		+ 84
Nov.	13	− 0.59	−1.11		+141.2	+13.3		8.22406	+665	
	14	− 1.70	−1.26	−0.15	+154.5	+ 5.4	−7.9	8.23071	+673	+ 8
	15	− 2.96	−1.35	−0.09	+159.9	− 3.3	−8.7	8.23744	+628	− 45
	16	− 4.31	−1.42	−0.07	+156.6	−11.3	−8.0	8.24372	+522	−106
	17	− 5.73	−1.48	−0.06	+145.3	−17.5	−6.2	8.24894	+356	−166
	18	− 7.21	−1.57	−0.09	+127.8	−20.8	−3.3	8.25250	+141	−215
	19	− 8.78	−1.64	−0.07	+107.0	−20.3	+0.5	8.25391	− 98	−239
	20	−10.42	−1.59	+0.05	+ 86.7	−16.5	+3.8	8.25293	−330	−232
	21	−12.01	−1.36	+0.23	+ 70.2	−11.2	+5.3	8.24963	−523	−193
	22	−13.37	−0.92	+0.44	+ 59.0	− 6.7	+4.5	8.24440	−659	−136
	23	−14.29	−0.39	+0.53	+ 52.3	− 4.3	+2.4	8.23781	−727	− 68
	24	−14.68	+0.10	+0.49	+ 48.0	− 4.4	−0.1	8.23054	−731	− 4
	25	−14.58	+0.49	+0.39	+ 43.6	− 5.9	−1.5	8.22323	−682	+ 49
	26	−14.09	+0.78	+0.29	+ 37.7	− 7.6	−1.7	8.21641	−596	+ 86
	27	−13.31	+0.99	+0.21	+ 30.1	− 8.7	−1.1	8.21045	−487	+109
	28	−12.32		+0.15	+ 21.4		−0.1	8.20558		+119
Dez.	12	− 3.06	−0.80		+155.8	+ 1.7		8.22888	+535	
	13	− 3.86	−0.79	+0.01	+157.5	− 5.5	−7.2	8.23423	+518	− 17
	14	− 4.65	−0.83	−0.04	+152.0	−12.2	−6.7	8.23941	+458	− 60
	15	− 5.48	−0.94	−0.11	+139.8	−17.7	−5.5	8.24399	+350	−108
	16	− 6.42	−1.12	−0.18	+122.1	−20.8	−3.1	8.24749	+195	−155
	17	− 7.54	−1.34	−0.22	+101.3	−20.7	+0.1	8.24944	+ 5	−190
	18	− 8.88	−1.48	−0.14	+ 80.6	−17.5	+3.2	8.24949	−201	−206
	19	−10.36	−1.42	+0.06	+ 63.1	−12.3	+5.2	8.24748	−392	−191
	20	−11.78	−1.12	+0.30	+ 50.8	− 7.5	+4.8	8.24356	−547	−155
	21	−12.90	−0.65	+0.47	+ 43.3	− 4.6	+2.9	8.23809	−651	−104
	22	−13.55	−0.14	+0.51	+ 38.7	− 4.1	+0.5	8.23158	−693	− 42
	23	−13.69	+0.30	+0.44	+ 34.6	− 5.1	−1.0	8.22465	−678	+ 15
	24	−13.39	+0.65	+0.35	+ 29.5	− 6.6	−1.5	8.21787	−614	+ 64
	25	−12.74	+0.93	+0.28	+ 22.9	− 7.4	−0.8	8.21173	−514	+100
	26	−11.81	+1.14	+0.21	+ 15.5	− 7.2	+0.2	8.20659	−391	+123
	27	−10.67		+0.18	+ 8.3		+1.7	8.20268		+134

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I

Datum		h m	
Jan.	1	15 47.9	E.
	3	10 16.1	E.
	5	4 44.3	E.
	6	23 12.5	E.
	8	17 40.7	E.
	10	12 9.0	E.
	12	6 37.2	E.
	14	1 5.4	E.
	15	19 33.6	E.
	17	14 1.9	E.
	19	8 30.1	E.
	21	2 58.4	E.
	22	21 26.7	E.
	24	15 55.0	E.
	26	10 23.2	E.
	28	4 51.5	E.
	29	23 19.8	E.
	31	17 48.1	E.
Febr.	2	12 16.4	E.
	4	6 44.7	E.
	6	1 13.0	E.
	7	19 41.3	E.
	9	14 9.6	E.
	11	8 38.0	E.
	13	3 6.3	E.
	14	21 34.7	E.
	16	16 3.0	E.
	18	10 31.4	E.
	20	4 59.7	E.
	21	23 28.2	E.
	23	17 56.5	E.
	25	12 25.0	E.
	27	6 53.3	E.
März	1	1 21.8	E.
	2	19 50.2	E.
	4	14 18.7	E.
	6	8 47.1	E.
	8	3 15.6	E.
	9	21 44.0	E.
	11	16 12.6	E.
	13	10 41.0	E.
	13	12 56.3	A.
	15	7 24.9	A.
	17	1 53.3	A.
	18	20 21.9	A.
	20	14 50.4	A.
	22	9 19.0	A.
	24	3 47.5	A.
	25	22 16.1	A.

TRABANT I

Datum		h m	
März	27	16 44.6	A.
	29	11 13.2	A.
	31	5 41.8	A.
April	2	0 10.4	A.
	3	18 39.0	A.
	5	13 7.6	A.
	7	7 36.2	A.
	9	2 4.9	A.
	10	20 33.5	A.
	12	15 2.2	A.
	14	9 30.8	A.
	16	3 59.5	A.
	17	22 28.1	A.
	19	16 56.9	A.
	21	11 25.5	A.
	23	5 54.3	A.
	25	0 22.9	A.
	26	18 51.7	A.
	28	13 20.4	A.
	30	7 49.1	A.
Mai	2	2 17.8	A.
	3	20 46.6	A.
	5	15 15.3	A.
	7	9 44.1	A.
	9	4 12.8	A.
	10	22 41.6	A.
	12	17 10.3	A.
	14	11 39.1	A.
	16	6 7.8	A.
	18	0 36.7	A.
	19	19 5.4	A.
	21	13 34.2	A.
	23	8 3.0	A.
	25	2 31.8	A.
	26	21 0.6	A.
	28	15 29.4	A.
	30	9 58.1	A.
Juni	1	4 27.0	A.
	2	22 55.7	A.
	4	17 24.6	A.
	6	11 53.3	A.
	8	6 22.2	A.
	10	0 51.0	A.
	11	19 19.8	A.
	13	13 48.6	A.
	15	8 17.4	A.
	17	2 46.2	A.
	18	21 15.0	A.
	20	15 43.8	A.

TRABANT I

Datum		h m	
Juni	22	10 12.7	A.
	24	4 41.4	A.
	25	23 10.3	A.
	27	17 39.0	A.
	29	12 7.9	A.
Juli	1	6 36.6	A.
	3	1 5.5	A.
	4	19 34.2	A.
	6	14 3.0	A.
	8	8 31.8	A.
	10	3 0.6	A.
	11	21 29.3	A.
	13	15 58.2	A.
	15	10 26.9	A.
	17	4 55.7	A.
	18	23 24.4	A.
	20	17 53.3	A.
	22	12 22.0	A.
	24	6 50.8	A.
	26	1 19.5	A.
	27	19 48.3	A.
	29	14 17.0	A.
	31	8 45.8	A.
Aug.	2	3 14.5	A.
	3	21 43.3	A.
	5	16 12.0	A.
	7	10 40.7	A.
	9	5 9.4	A.
	10	23 38.2	A.
	12	18 6.8	A.
	14	12 35.6	A.
	16	7 4.2	A.
	18	1 33.0	A.
	19	20 1.6	A.

Datum		h m	
Okt.	17	3 31.4	E.
	18	22 0.0	E.
	20	16 28.3	E.
	22	10 56.8	E.
	24	5 25.3	E.
	25	23 53.7	E.
	27	18 22.1	E.
	29	12 50.5	E.
	31	7 19.0	E.
Nov.	2	1 47.4	E.
	3	20 15.8	E.
	5	14 44.2	E.

TRABANT I

Datum		h m	
Nov.	7	9 12.6	E.
	9	3 41.0	E.
	10	22 9.4	E.
	12	16 37.7	E.
	14	11 6.1	E.
	16	5 34.4	E.
	18	0 2.8	E.
	19	18 31.1	E.
	21	12 59.5	E.
	23	7 27.8	E.
	25	1 56.2	E.
	26	20 24.5	E.
	28	14 52.8	E.
	30	9 21.1	E.
Dez.	2	3 49.4	E.
	3	22 17.7	E.
	5	16 46.0	E.
	7	11 14.3	E.
	9	5 42.5	E.
	11	0 10.8	E.
	12	18 39.1	E.
	14	13 7.4	E.
	16	7 35.6	E.
	18	2 3.9	E.
	19	20 32.1	E.
	21	15 0.4	E.
	23	9 28.6	E.
	25	3 56.8	E.
	26	22 25.1	E.
	28	16 53.3	E.
	30	11 21.5	E.
	32	5 49.7	E.

TRABANT II

Datum		h m	
Jan.	3	13 18.4	E.
	7	2 35.7	E.
	10	15 54.0	E.
	14	5 11.4	E.
	17	18 29.6	E.
	21	7 46.9	E.
	24	21 5.1	E.
	28	10 22.4	E.
	31	23 40.5	E.

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

		h	m	
Febr.	4	12	57.9	E.
	8	2	16.0	E.
	11	15	33.4	E.
	15	4	51.4	E.
	18	18	8.8	E.
	22	7	26.8	E.
	25	20	44.1	E.
März	1	10	2.1	E.
	4	23	19.6	E.
	8	12	37.5	E.
	12	1	54.9	E.
	15	18	1.3	A.
	19	7	18.6	A.
	22	20	36.3	A.
	26	9	53.6	A.
	29	23	11.2	A.
April	2	12	28.6	A.
	6	1	46.2	A.
	9	15	3.5	A.
	13	4	21.1	A.
	16	17	38.4	A.
	20	6	55.9	A.
	23	20	13.3	A.
	27	9	30.7	A.
	30	22	48.1	A.
Mai	4	12	5.5	A.
	8	1	22.8	A.
	11	14	40.2	A.
	15	3	57.6	A.
	18	17	14.8	A.
	22	6	32.2	A.
	25	19	49.5	A.
	29	9	6.8	A.
Juni	1	22	24.0	A.
	5	11	41.3	A.
	9	0	58.5	A.
	12	14	15.8	A.
	16	3	32.9	A.
	19	16	50.1	A.
	23	6	7.3	A.
	26	19	24.5	A.
	30	8	41.6	A.
Juli	3	21	58.8	A.
	7	11	15.9	A.
	11	0	33.0	A.
	14	13	50.1	A.
	18	3	7.3	A.
	21	16	24.4	A.
	25	5	41.4	A.

TRABANT II

		h	m	
Juli	28	18	58.6	A.
Aug.	1	8	15.7	A.
	4	21	32.8	A.
	8	10	49.9	A.
	12	0	7.0	A.
	15	13	24.0	A.
	19	2	41.2	A.

		h	m	
Okt.	18	9	50.4	E.
	21	23	7.7	E.
	25	12	25.0	E.
	29	1	42.3	E.
Nov.	1	14	59.8	E.
	5	4	17.1	E.
	8	17	34.6	E.
	12	6	51.9	E.
	15	20	9.5	E.
	19	9	26.8	E.
	22	22	44.5	E.
	26	12	1.8	E.
	30	1	19.5	E.
Dez.	3	14	36.8	E.
	7	3	54.6	E.
	10	17	11.9	E.
	14	6	29.8	E.
	17	19	47.1	E.
	21	9	5.1	E.
	24	22	22.4	E.
	28	11	40.5	E.
	32	0	57.8	E.

TRABANT III

		h	m	
Jan.	5	14	20.3	E.
	5	17	34.3	A.
	12	18	18.4	E.
	12	21	31.7	A.
	19	22	16.3	E.
	20	1	28.8	A.
	27	2	14.3	E.
	27	5	25.9	A.
Febr.	3	6	11.9	E.
	3	9	22.8	A.

TRABANT III

		h	m	
Febr.	10	10	9.3	E.
	17	14	6.8	E.
	24	18	4.8	E.
März	3	22	3.6	E.
	11	2	2.3	E.
	18	9	7.3	A.
	25	13	4.9	A.
April	1	17	2.4	A.
	8	21	0.3	A.
	16	0	58.3	A.
	23	1	55.6	E.
	23	4	57.4	A.
	30	5	55.1	E.
	30	8	56.0	A.
Mai	7	9	55.0	E.
	7	12	55.0	A.
	14	13	54.2	E.
	14	16	53.3	A.
	21	17	53.2	E.
	21	20	51.5	A.
	28	21	52.6	E.
	29	0	49.9	A.
Juni	5	1	52.1	E.
	5	4	48.5	A.
	12	5	52.4	E.
	12	8	47.9	A.
	19	9	52.3	E.
	19	12	46.9	A.
	26	13	52.3	E.
	26	16	46.0	A.
Juli	3	17	51.6	E.
	3	20	44.4	A.
	10	21	50.8	E.
	11	0	42.6	A.
	18	1	50.3	E.
	18	4	41.0	A.
	25	5	49.4	E.
	25	8	39.4	A.
Aug.	1	9	49.5	E.
	1	12	38.6	A.
	8	13	49.1	E.
	8	16	37.3	A.
	15	17	48.8	E.
	15	20	35.9	A.

TRABANT III

		h	m	
Okt.	19	5	36.8	E.
	26	9	34.8	E.
Nov.	2	13	32.8	E.
	9	17	31.5	E.
	16	21	29.6	E.
	17	0	4.7	A.
	24	1	27.6	E.
	24	4	1.8	A.
Dez.	1	5	25.0	E.
	1	7	58.3	A.
	8	9	22.2	E.
	8	11	54.5	A.
	15	13	19.5	E.
	15	15	51.0	A.
	22	17	17.0	E.
	22	19	47.4	A.
	29	21	15.1	E.
	29	23	44.6	A.

TRABANT IV

		h	m	
Jan.	16	18	11.3	E.
	16	21	38.6	A.
Febr.	2	12	11.8	E.
	2	15	30.5	A.
	19	6	13.8	E.
	19	9	23.3	A.
März	8	0	15.9	E.
	24	18	19.3	E.
	24	21	7.9	A.
April	10	12	24.3	E.
	10	15	1.3	A.
	27	6	29.5	E.
	27	8	54.1	A.
Mai	14	0	36.1	E.
	14	2	46.3	A.
	30	18	44.3	E.
	30	20	38.5	A.
Juni	16	12	53.2	E.
	16	14	28.6	A.
Juli	3	7	4.7	E.
	3	8	16.1	A.
	20	1	23.4	E.
	20	1	58.6	A.

Saturn und Saturnsring 1945

0^h Welt-Zeit		α	β	p_α	a	b	U'	B'	P'
1945		″	″	″	″	″	°	°	°
Jan.	—1	20.71	18.98	0.00	46.64	—20.27	290.747	—25.815	— 9.595
	+7	20.68	18.95	0.00	46.57	20.32	291.076	25.777	9.742
	15	20.59	18.88	+0.01	46.38	20.32	291.405	25.738	9.889
	23	20.46	18.76	0.01	46.09	20.27	291.734	25.699	10.035
	31	20.29	18.60	0.02	45.70	20.17	292.063	25.659	10.181
Febr.	8	20.08	18.41	+0.03	45.22	—20.02	292.391	—25.618	—10.326
	16	19.84	18.20	0.04	44.68	19.83	292.719	25.577	10.471
	24	19.58	17.96	0.04	44.10	19.60	293.047	25.535	10.615
März	4	19.30	17.71	0.05	43.48	19.35	293.374	25.492	10.759
	12	19.02	17.45	0.05	42.85	19.08	293.701	25.448	10.903
	20	18.74	17.19	+0.06	42.22	—18.80	294.028	—25.404	—11.046
	28	18.47	16.94	0.06	41.59	18.51	294.355	25.359	11.189
April	5	18.20	16.70	0.05	40.99	18.22	294.681	25.313	11.331
	13	17.95	16.46	0.05	40.42	17.93	295.007	25.266	11.473
	21	17.71	16.24	0.04	39.89	17.65	295.333	25.219	11.615
	29	17.49	16.04	+0.04	39.40	—17.38	295.658	—25.171	—11.756
Mai	7	17.29	15.86	0.03	38.96	17.12	295.983	25.122	11.897
	15	17.12	15.69	0.03	38.56	16.88	296.308	25.073	12.037
	23	16.97	15.55	0.02	38.22	16.65	296.633	25.023	12.177
	31	16.84	15.43	0.01	37.94	16.43	296.957	24.972	12.316
Juni	8	16.74	15.33	+0.01	37.71	—16.23	297.281	—24.921	—12.455
	16	16.66	15.26	0.00	37.53	16.04	297.605	24.869	12.593
	24	16.61	15.20	0.00	37.41	15.87	297.929	24.816	12.731
Juli	2	16.58	15.17	0.00	37.34	15.72	298.252	24.762	12.869
	10	16.58	15.16	0.00	37.33	15.59	298.575	24.708	13.006
	18	16.60	15.18	0.00	37.38	—15.47	298.897	—24.653	—13.142
	26	16.65	15.22	0.00	37.49	15.37	299.219	24.597	13.278
Aug.	3	16.72	15.28	—0.01	37.65	15.30	299.541	24.541	13.414
	11	16.81	15.36	0.01	37.87	15.25	299.862	24.484	13.549
	19	16.93	15.46	0.02	38.14	15.21	300.183	24.426	13.684
	27	17.08	15.59	—0.02	38.47	—15.20	300.504	—24.368	—13.818
Sept.	4	17.25	15.74	0.03	38.85	15.22	300.824	24.309	13.952
	12	17.44	15.91	0.04	39.28	15.26	301.144	24.249	14.085
	20	17.65	16.10	0.04	39.76	15.33	301.464	24.189	14.217
	28	17.88	16.31	0.05	40.28	15.43	301.783	24.128	14.349
Okt.	6	16.13	16.53	—0.05	40.83	—15.55	302.102	—24.066	—14.480
	14	18.39	16.76	0.06	41.42	15.70	302.421	24.004	14.611
	22	18.66	17.01	0.06	42.04	15.88	302.740	23.941	14.742
	30	18.94	17.26	0.05	42.66	16.09	303.058	23.878	14.872
Nov.	7	19.22	17.52	0.05	43.29	16.32	303.376	23.814	15.002
	15	19.49	17.77	—0.05	43.91	—16.57	303.693	—23.749	—15.131
	23	19.75	18.01	0.04	44.49	16.84	304.010	23.684	15.259
Dez.	1	19.99	18.23	0.03	45.03	17.12	304.327	23.618	15.387
	9	20.20	18.42	0.02	45.51	17.40	304.643	23.551	15.514
	17	20.38	18.59	0.01	45.91	17.67	304.959	23.484	15.641
	25	20.52	18.72	—0.01	46.22	17.92	305.274	23.416	15.767
	33	20.61	18.81	0.00	46.42	—18.14	305.589	—23.347	—15.893

0h Welt-Zeit		U	B	P	log (Δ)/Δ	0h Welt-Zeit		U	B	P	log (Δ)/Δ
1945.		°	°	°		1945		°	°	°	
Jan.	−1	332.261	−25.751	−6.428	0.07386	Juli	2	339.405	−24.900	−6.793	9.97727
	+3	331.901	25.812	6.407	0.07366		6	339.964	24.791	6.815	9.97714
	7	331.545	25.872	6.387	0.07318		10	340.522	24.679	6.837	9.97718
	11	331.196	25.931	6.367	0.07243		14	341.078	24.565	6.857	9.97738
	15	330.857	25.988	6.347	0.07141		18	341.632	24.450	6.877	9.97775
	19	330.532	−26.043	−6.328	0.07014		22	342.181	−24.334	−6.896	9.97828
	23	330.223	26.095	6.309	0.06863		26	342.724	24.216	6.914	9.97897
	27	329.934	26.144	6.291	0.06688		30	343.260	24.098	6.931	9.97983
	31	329.666	26.189	6.275	0.06492	Aug.	3	343.789	23.979	6.947	9.98084
Febr.	4	329.423	26.231	6.260	0.06275		7	344.309	23.860	6.962	9.98201
	8	329.206	−26.270	−6.247	0.06040		11	344.818	−23.742	−6.976	9.98334
	12	329.017	26.305	6.236	0.05788		15	345.316	23.624	6.989	9.98483
	16	328.858	26.336	6.226	0.05521		19	345.801	23.508	7.002	9.98646
	20	328.730	26.363	6.218	0.05240		23	346.272	23.393	7.013	9.98824
	24	328.634	26.386	6.212	0.04947		27	346.729	23.281	7.023	9.99016
	28	328.570	−26.405	−6.208	0.04645		31	347.170	−23.171	−7.032	9.99222
März	4	328.539	26.420	6.207	0.04336	Sept.	4	347.594	23.065	7.041	9.99442
	8	328.541	26.431	6.207	0.04020		8	348.000	22.962	7.049	9.99675
	12	328.576	26.437	6.210	0.03700		12	348.386	22.862	7.057	9.99920
	16	328.645	26.439	6.215	0.03377		16	348.752	22.767	7.064	0.00177
	20	328.746	−26.437	−6.222	0.03053		20	349.096	−22.678	−7.070	0.00444
	24	328.879	26.431	6.231	0.02730		24	349.417	22.594	7.075	0.00722
	28	329.044	26.421	6.242	0.02409		28	349.714	22.516	7.080	0.01009
April	1	329.239	26.406	6.255	0.02091	Okt.	2	349.986	22.444	7.084	0.01304
	5	329.463	26.387	6.270	0.01778		6	350.233	22.379	7.087	0.01607
	9	329.716	−26.364	−6.286	0.01470		10	350.453	−22.321	−7.090	0.01917
	13	329.997	26.336	6.304	0.01169		14	350.645	22.271	7.093	0.02231
	17	330.304	26.304	6.323	0.00877		18	350.809	22.229	7.095	0.02549
	21	330.637	26.268	6.344	0.00594		22	350.943	22.195	7.097	0.02869
	25	330.993	26.227	6.366	0.00320		26	351.048	22.170	7.098	0.03190
	29	331.372	−26.182	−6.389	0.00057		30	351.122	−22.154	−7.099	0.03511
Mai	3	331.772	26.132	6.413	9.99805	Nov.	3	351.166	22.147	7.100	0.03830
	7	332.191	26.078	6.437	9.99566		7	351.179	22.148	7.100	0.04146
	11	332.629	26.020	6.462	9.99339		11	351.161	22.159	7.100	0.04456
	15	333.085	25.957	6.488	9.99125		15	351.112	22.179	7.100	0.04758
	19	333.556	−25.890	−6.514	9.98925		19	351.033	−22.208	−7.099	0.05051
	23	334.042	25.819	6.540	9.98739		23	350.924	22.245	7.098	0.05334
	27	334.541	25.744	6.566	9.98568		27	350.786	22.291	7.097	0.05604
	31	335.051	25.665	6.593	9.98412	Dez.	1	350.619	22.345	7.095	0.05859
Juni	4	335.572	25.581	6.620	9.98271		5	350.425	22.407	7.093	0.06098
	8	336.102	−25.494	−6.646	9.98145		9	350.206	−22.476	−7.090	0.06319
	12	336.640	25.403	6.672	9.98035		13	349.963	22.551	7.087	0.06520
	16	337.185	25.309	6.697	9.97941		17	349.698	22.632	7.084	0.06700
	20	337.735	25.212	6.722	9.97863		21	349.414	22.718	7.080	0.06857
	24	338.289	25.111	6.746	9.97801		25	349.113	22.808	7.075	0.06990
	28	338.846	25.007	6.770	9.97756		29	348.797	22.902	7.070	0.07098
Juli	2	339.405	−24.900	−6.793	9.97727		33	348.470	−22.998	−7.065	0.07180

Saturnstrabanten 1945

0h Welt-Zeit		L	M	L	M	L	L	M	L	M
		MIMAS		ENCELADUS		TETHYS	DIONE		RHEA	
1945		°	°	°	°	°	°	°	°	°
Jan.	−9	334.490	144.11	146.878	287.7	9.463	3.837	44.0	43.502	242.6
	+7	326.272	119.88	30.589	166.0	180.634	308.394	347.2	238.542	77.7
	23	318.055	95.65	274.300	44.3	351.805	252.952	290.4	73.581	272.7
Febr.	8	309.838	71.42	158.012	282.6	162.977	197.509	233.6	268.621	107.8
	24	301.622	47.19	41.726	160.9	334.148	142.067	176.8	103.660	302.8
März	12	293.407	22.96	285.441	39.2	145.319	86.624	120.0	298.700	137.8
	28	285.192	358.73	169.156	277.5	316.490	31.181	63.3	133.739	332.9
April	13	276.978	334.50	52.872	155.8	127.661	335.739	6.5	328.779	167.9
	29	268.764	310.27	296.590	34.1	298.832	280.296	309.7	163.818	2.9
Mai	15	260.550	286.05	180.308	272.4	110.003	224.853	252.9	358.858	197.9
Sept.	20	194.863	92.25	330.079	19.0	39.370	141.308	158.6	119.174	318.2
Okt.	6	186.654	68.02	213.803	257.3	210.541	85.864	101.8	314.213	153.2
	22	178.446	43.80	97.527	135.6	21.712	30.421	45.0	149.253	348.2
Nov.	7	170.239	19.58	341.251	13.9	192.882	334.978	348.2	344.292	183.2
	23	162.032	355.36	224.975	252.3	4.053	279.535	291.4	179.332	18.2
Dez.	9	153.826	331.14	108.699	130.6	175.224	224.091	234.6	14.371	213.3
	25	145.620	306.92	352.423	8.9	346.394	168.648	177.9	209.411	48.3
	41	137.415	282.70	236.147	247.2	157.565	113.205	121.1	44.451	243.3

0h Welt-Zeit		L	M	L	M	e	log a	L	M
		TITAN		HYPERION				JAPETUS	
1945		°	°	°	°			°	°
Jan.	−9	210.064	28.31	60.090	237.32	0.12311	2.32982	42.456	88.21
	+7	211.297	29.52	332.052	149.98	0.12282	2.32970	115.066	160.81
	23	212.530	30.73	244.109	62.74	0.12261	2.32962	187.675	233.42
Febr.	8	213.763	31.94	156.229	335.57	0.12250	2.32957	260.285	306.02
	24	214.995	33.15	68.377	248.42	0.12248	2.32956	332.894	18.62
März	12	216.228	34.36	340.518	161.27	0.12255	2.32958	45.504	91.22
	28	217.461	35.57	252.620	74.08	0.12272	2.32964	118.113	163.82
April	13	218.694	36.78	164.649	346.81	0.12297	2.32974	190.722	236.43
	29	219.926	37.99	76.571	259.43	0.12331	2.32988	263.332	309.03
Mai	15	221.159	39.19	348.357	171.91	0.12373	2.33004	335.941	21.63
Sept.	20	231.021	48.87	355.633	184.37	0.12821	2.33178	196.817	242.45
Okt.	6	232.254	50.08	265.598	94.94	0.12870	2.33198	269.426	315.05
	22	233.486	51.29	175.386	5.31	0.12912	2.33215	342.035	27.65
Nov.	7	234.719	52.50	85.019	275.52	0.12947	2.33230	54.645	100.25
	23	235.952	53.71	354.523	185.60	0.12974	2.33242	127.254	172.85
Dez.	9	237.184	54.92	263.929	95.58	0.12992	2.33250	199.864	245.46
	25	238.417	56.13	173.268	5.49	0.13000	2.33255	272.473	318.06
	41	239.650	57.33	82.575	275.36	0.12999	2.33256	345.082	30.66

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan		Japetus	
	L	M	L	M	L	L	M	L	M	L	M	L	M
d	°	°	°	°	°	°	°	°	°	°	°	°	°
1	21.9868	20.986	262.7324	262.39	190.6982	131.5348	131.45	79.6900	79.69	22.5770	22.576	4.5381	4.537
2	43.9735	41.971	165.4648	164.79	21.3964	263.0696	262.90	159.3799	159.38	45.1541	45.151	9.0762	9.075
3	65.9603	62.957	68.1972	67.18	212.0946	34.6044	34.35	239.0699	239.06	67.7311	67.727	13.6143	13.612
4	87.9470	83.943	330.9296	329.58	42.7928	166.1393	165.80	318.7599	318.75	90.3081	90.302	18.1524	18.150
5	109.9338	104.928	233.6620	231.97	233.4910	297.6741	297.25	38.4498	38.44	112.8852	112.878	22.6905	22.687
6	131.9205	125.914	136.3944	134.36	64.1891	69.2089	68.70	118.1398	118.13	135.4622	135.454	27.2286	27.225
7	153.9073	146.899	39.1268	36.76	254.8873	200.7437	200.15	197.8298	197.81	158.0392	158.029	31.7667	31.762
8	175.8940	167.885	301.8592	299.15	85.5855	332.2785	331.60	277.5197	277.50	180.6162	180.605	36.3047	36.300
9	197.8808	188.871	204.5917	201.54	276.2837	103.8133	103.05	357.2097	357.19	203.1933	203.181	40.8428	40.837
10	219.8675	209.856	107.3241	103.94	106.9819	235.3481	234.50	76.8997	76.88	225.7703	225.756	45.3809	45.375
11	241.8543	230.842	10.0565	6.33	297.6801	6.8829	5.95	156.5897	156.56	248.3473	248.332	49.9190	49.912
12	263.8410	251.828	272.7889	268.72	128.3783	138.4178	137.40	236.2796	236.25	270.9244	270.907	54.4571	54.450
13	285.8278	272.813	175.5213	171.12	319.0765	269.9526	268.85	315.9696	315.94	293.5014	293.483	58.9952	58.987
14	307.8145	293.799	78.2537	73.51	149.7747	41.4874	40.30	35.6596	35.63	316.0784	316.059	63.5333	63.525
15	329.8013	314.784	340.9861	335.91	340.4729	173.0222	171.75	115.3495	115.31	338.6555	338.634	68.0714	68.062
16	351.7880	335.770	243.7185	238.30	171.1710	304.5570	303.20	195.0395	195.00	361.2325	361.210	72.6095	72.600
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.1	38.1987	38.099	26.2732	26.24	19.0698	13.1535	13.14	7.9690	7.97	2.2577	2.258	0.4538	0.454
0.2	76.3974	76.197	52.5465	52.48	38.1396	26.3070	26.29	15.9380	15.94	4.5154	4.515	0.9076	0.907
0.3	114.5960	114.296	78.8197	78.72	57.2095	39.4604	39.43	23.9070	23.91	6.7731	6.773	1.3614	1.361
0.4	152.7947	152.394	105.0930	104.96	76.2793	52.6139	52.58	31.8760	31.88	9.0308	9.030	1.8152	1.815
0.5	190.9934	190.493	131.3662	131.20	95.3491	65.7674	65.72	39.8450	39.84	11.2885	11.288	2.2690	2.269
0.6	229.1921	228.591	157.6394	157.44	114.4189	78.9209	78.87	47.8140	47.81	13.5462	13.545	2.7229	2.722
0.7	267.3907	266.690	183.9127	183.68	133.4887	92.0744	92.01	55.7830	55.78	15.8039	15.803	3.1767	3.176
0.8	305.5894	304.789	210.1859	209.92	152.5586	105.2279	105.16	63.7520	63.75	18.0616	18.060	3.6305	3.630
0.9	343.7881	342.887	236.4592	236.15	171.6284	118.3813	118.30	71.7210	71.72	20.3193	20.318	4.0843	4.084
1.0	381.9868	380.986	262.7324	262.39	190.6982	131.5348	131.45	79.6900	79.69	22.5770	22.576	4.5381	4.537
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.01	3.8199	3.810	2.6273	2.62	1.9070	1.3153	1.31	0.7969	0.80	0.2258	0.226	0.0454	0.045
0.02	7.6397	7.620	5.2546	5.25	3.8140	2.6307	2.63	1.5938	1.59	0.4515	0.452	0.0908	0.091
0.03	11.4596	11.430	7.8820	7.87	5.7209	3.9460	3.94	2.3907	2.39	0.6773	0.677	0.1361	0.136
0.04	15.2795	15.239	10.5093	10.50	7.6279	5.2614	5.26	3.1876	3.19	0.9031	0.903	0.1815	0.181
0.05	19.0993	19.049	13.1366	13.12	9.5349	6.5767	6.57	3.9845	3.98	1.1289	1.129	0.2269	0.227
0.06	22.9192	22.859	15.7639	15.74	11.4419	7.8921	7.89	4.7814	4.78	1.3546	1.355	0.2723	0.272
0.07	26.7391	26.669	18.3913	18.37	13.3489	9.2074	9.20	5.5783	5.58	1.5804	1.580	0.3177	0.318
0.08	30.5589	30.479	21.0186	20.99	15.2559	10.5228	10.52	6.3752	6.38	1.8062	1.806	0.3630	0.363
0.09	34.3788	34.289	23.6459	23.62	17.1628	11.8381	11.83	7.1721	7.17	2.0319	2.032	0.4084	0.408
0.10	38.1987	38.099	26.2732	26.24	19.0698	13.1535	13.14	7.9690	7.97	2.2577	2.258	0.4538	0.454
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.001	0.3820	0.381	0.2627	0.26	0.1907	0.1315	0.13	0.0797	0.08	0.0226	0.023	0.0045	0.005
0.002	0.7640	0.762	0.5255	0.52	0.3814	0.2631	0.26	0.1594	0.16	0.0452	0.045	0.0091	0.009
0.003	1.1460	1.143	0.7882	0.79	0.5721	0.3946	0.39	0.2391	0.24	0.0677	0.068	0.0136	0.014
0.004	1.5279	1.524	1.0509	1.05	0.7628	0.5261	0.53	0.3188	0.32	0.0903	0.090	0.0182	0.018
0.005	1.9099	1.905	1.3137	1.31	0.9535	0.6577	0.66	0.3984	0.40	0.1129	0.113	0.0227	0.023
0.006	2.2919	2.286	1.5764	1.57	1.1442	0.7892	0.79	0.4781	0.48	0.1355	0.135	0.0272	0.027
0.007	2.6739	2.667	1.8391	1.84	1.3349	0.9207	0.92	0.5578	0.56	0.1580	0.158	0.0318	0.032
0.008	3.0559	3.048	2.1019	2.10	1.5256	1.0523	1.05	0.6375	0.64	0.1806	0.181	0.0363	0.036
0.009	3.4379	3.429	2.3646	2.36	1.7163	1.1838	1.18	0.7172	0.72	0.2032	0.203	0.0408	0.041
0.010	3.8199	3.810	2.6273	2.62	1.9070	1.3153	1.31	0.7969	0.80	0.2258	0.226	0.0454	0.045

0^h Welt-Zeit	ϑ Mimas	ϑ Encel.	ϑ Tethys	ϑ Dione	ϑ Rhea	γ Rhea	N Saturnsring	J Saturnsring	ω Saturnsring
1945	°	°	°	°	°	′	°	°	°
Jan. —9	97.1	55.7	277.3	146.5	181.2	21.80	128.205	6.712	41.644
+7	81.1	49.0	274.1	145.1	180.7	21.79	128.207	6.711	41.642
23	65.1	42.4	270.9	143.8	180.3	21.77	128.209	6.711	41.641
Febr. 8	49.1	35.7	267.8	142.4	179.9	21.76	128.210	6.711	41.640
24	33.1	29.0	264.6	141.0	179.5	21.75	128.212	6.711	41.639
März 12	17.1	22.3	261.4	139.7	179.1	21.74	128.214	6.711	41.637
28	1.1	15.6	258.3	138.3	178.6	21.73	128.216	6.710	41.636
April 13	345.1	8.9	255.1	137.0	178.2	21.72	128.218	6.710	41.635
29	329.1	2.2	251.9	135.6	177.8	21.71	128.220	6.710	41.633
Mai 15	313.1	355.5	248.8	134.2	177.4	21.69	128.221	6.710	41.632
31	297.1	348.8	245.6	132.9	176.9	21.68	128.223	6.710	41.631
Juni 16	281.1	342.1	242.4	131.5	176.5	21.67	128.225	6.709	41.630
Juli 2	265.1	335.4	239.3	130.2	176.1	21.66	128.227	6.709	41.628
18	249.1	328.8	236.1	128.8	175.7	21.65	128.229	6.709	41.627
Aug. 3	233.1	322.1	232.9	127.4	175.3	21.64	128.231	6.709	41.626
19	217.1	315.4	229.8	126.1	174.8	21.63	128.232	6.709	41.624
Sept. 4	201.1	308.7	226.6	124.7	174.4	21.61	128.234	6.708	41.623
20	185.1	302.0	223.4	123.4	174.0	21.60	128.236	6.708	41.622
Okt. 6	169.1	295.3	220.3	122.0	173.6	21.59	128.238	6.708	41.620
22	153.1	288.6	217.1	120.6	173.2	21.58	128.240	6.708	41.619
Nov. 7	137.1	281.9	213.9	119.3	172.7	21.57	128.242	6.708	41.618
23	121.1	275.2	210.8	117.9	172.3	21.56	128.244	6.708	41.617
Dez. 9	105.1	268.5	207.6	116.6	171.9	21.55	128.245	6.707	41.615
25	89.1	261.8	204.4	115.2	171.5	21.53	128.247	6.707	41.614
41	73.1	255.2	201.3	113.8	171.1	21.52	128.249	6.707	41.613

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

$u-U$	$u-U$	Mimas	Encel.	Tethys	Dione	Rhea	$u-U$	$u-U$
0°	360°	—6+	—7+	—9+	—11+	—16+	180°	180°
10	350	—6+	—7+	—9+	—11+	—16+	170	190
20	340	—5+	—7+	—8+	—11+	—15+	160	200
30	330	—5+	—6+	—8+	—10+	—14+	150	210
40	320	—4+	—6+	—7+	— 9+	—12+	140	220
50	310	—3+	—5+	—6+	— 8+	—10+	130	230
60	300	—3+	—4+	—4+	— 6+	— 8+	120	240
70	290	—2+	—3+	—3+	— 4+	— 6+	110	250
80	280	—1+	—1+	—2+	— 2+	— 3+	100	260
90	270	0	0	0	0	0	90	270

0h Welt-Zeit		TITAN			HYPERION			JAPETUS		
		U	*B*	*P*	*U*	*B*	*P*	*U*	*B*	*P*
1945		°	°	°	°	°	°	°	°	°
Jan.	−1	336.421	−25.318	−6.652	332.125	−25.830	−6.542	50.246	−11.586	− 9.949
	+7	335.709	25.442	6.618	331.413	25.952	6.501	49.598	11.748	10.089
	15	335.025	25.560	6.584	330.729	26.069	6.461	48.977	11.904	10.221
	23	334.395	25.669	6.552	330.099	26.177	6.423	48.405	12.049	10.342
	31	333.842	25.766	6.523	329.547	26.272	6.388	47.904	12.179	10.448
Febr.	8	333.386	−25.849	−6.499	329.091	−26.353	−6.360	47.491	−12.290	−10.535
	16	333.041	25.916	6.481	328.747	26.419	6.339	47.180	12.379	10.601
	24	332.819	25.966	6.469	328.527	26.470	6.325	46.980	12.444	10.644
März	4	332.726	26.000	6.465	328.437	26.504	6.320	46.897	12.484	10.663
	12	332.764	26.018	6.468	328.479	26.521	6.324	46.934	12.498	10.657
	20	332.934	−26.018	−6.479	328.653	−26.521	−6.337	47.091	−12.486	−10.626
	28	333.232	26.000	6.497	328.955	26.503	6.358	47.364	12.449	10.572
April	5	333.652	25.964	6.521	329.379	26.468	6.387	47.747	12.387	10.495
	13	334.185	25.911	6.551	329.918	26.416	6.423	48.233	12.301	10.396
	21	334.823	25.840	6.586	330.562	26.346	6.465	48.815	12.192	10.276
	29	335.556	−25.751	−6.625	331.301	−26.258	−6.511	49.483	−12.062	−10.136
Mai	7	336.373	25.644	6.666	332.125	26.153	6.561	50.228	11.912	9.978
	15	337.264	25.520	6.709	333.023	26.030	6.614	51.041	11.743	9.803
	23	338.218	25.379	6.753	333.985	25.890	6.668	51.913	11.557	9.613
	31	339.224	25.221	6.798	334.998	25.733	6.722	52.833	11.355	9.409
Juni	8	340.272	−25.047	−6.841	336.054	−25.560	−6.776	53.792	−11.140	− 9.194
	16	341.351	24.859	6.883	337.142	25.372	6.829	54.782	10.914	8.970
	24	342.452	24.657	6.922	338.250	25.171	6.880	55.792	10.678	8.738
Juli	2	343.564	24.443	6.959	339.370	24.958	6.928	56.815	10.435	8.500
	10	344.678	24.220	6.993	340.492	24.734	6.973	57.841	10.186	8.258
	18	345.784	−23.988	−7.024	341.605	−24.503	−7.015	58.862	− 9.934	− 8.015
	26	346.872	23.751	7.051	342.701	24.266	7.053	59.869	9.682	7.773
Aug.	3	347.934	23.512	7.074	343.770	24.027	7.088	60.853	9.432	7.534
	11	348.960	23.273	7.094	344.803	23.787	7.118	61.806	9.188	7.301
	19	349.941	23.037	7.111	345.790	23.550	7.144	62.719	8.951	7.076
	27	350.867	−22.809	−7.125	346.723	−23.320	−7.167	63.584	− 8.724	− 6.861
Sept.	4	351.730	22.591	7.136	347.592	23.101	7.187	64.391	8.511	6.660
	12	352.520	22.387	7.144	348.388	22.896	7.203	65.131	8.314	6.474
	20	353.228	22.202	7.150	349.101	22.710	7.216	65.795	8.137	6.307
	28	353.845	22.038	7.154	349.724	22.546	7.226	66.376	7.983	6.160
Okt.	6	354.363	−21.900	−7.157	350.247	−22.407	−7.234	66.865	− 7.854	− 6.036
	14	354.775	21.792	7.159	350.663	22.298	7.240	67.253	7.753	5.938
	22	355.073	21.716	7.161	350.965	22.221	7.245	67.534	7.683	5.866
	30	355.253	21.674	7.162	351.148	22.178	7.248	67.704	7.645	5.823
Nov.	7	355.311	21.668	7.163	351.209	22.172	7.249	67.759	7.640	5.810
	15	355.245	−21.698	−7.163	351.146	−22.203	−7.249	67.697	− 7.669	− 5.826
	23	355.058	21.765	7.163	350.962	22.270	7.248	67.521	7.731	5.872
Dez.	1	354.756	21.866	7.163	350.661	22.370	7.245	67.236	7.825	5.945
	9	354.346	21.997	7.162	350.253	22.501	7.241	66.850	7.948	6.044
	17	353.841	22.153	7.160	349.750	22.658	7.235	66.375	8.096	6.166
	25	353.260	22.330	7.157	349.170	22.835	7.227	65.829	8.264	6.305
	33	352.621	−22.521	−7.153	348.532	−23.026	−7.217	65.230	− 8.447	− 6.457

0ʰ Welt-Zeit	HYPERION $\alpha_{tr}-\alpha_{pl}$ (s)	Diff. (s)	$\delta_{tr}-\delta_{pl}$ (″)	Diff. (″)
1945				
Jan. 1	−16.8	+ 2.8	− 26	−62
3	−14.0	+ 7.7	− 88	−32
5	− 6.3	+ 9.7	−120	+ 3
7	+ 3.4	+ 8.8	−117	+33
9	+12.2	+ 5.7	− 84	+53
11	+17.9	+ 1.1	− 31	+62
13	+19.0	− 4.7	+ 31	+52
15	+14.3	− 9.8	+ 83	+20
17	+ 4.5	−11.7	+103	−25
19	− 7.2	− 8.0	+ 78	−64
21	−15.2	− 0.9	+ 14	−71
23	−16.1	+ 5.4	− 57	−49
25	−10.7	+ 8.9	−106	−16
27	− 1.8	+ 9.4	−122	+17
29	+ 7.6	+ 7.5	−105	+44
31	+15.1	+ 3.7	− 61	+58
Febr. 2	+18.8	− 1.6	− 3	+59
4	+17.2	− 7.1	+ 56	+40
6	+10.1	−11.0	+ 96	0
8	− 0.9	−10.4	+ 96	−44
10	−11.3	− 4.8	+ 52	−70
12	−16.1	+ 2.2	− 18	−63
14	−13.9	+ 7.2	− 81	−34
16	− 6.7	+ 9.2	−115	0
18	+ 2.5	+ 8.5	−115	+29
20	+11.0	+ 5.8	− 86	+50
22	+16.8	+ 1.4	− 36	+59
24	+18.2	− 3.9	+ 23	+52
26	+14.3	− 8.9	+ 75	+24
28	+ 5.4	−11.1	+ 99	−19
März 2	− 5.7	− 8.1	+ 80	−58
4	−13.8	− 1.6	+ 22	−68
6	−15.4	+ 4.5	− 46	−50
8	−10.9	+ 8.1	− 96	−19
10	− 2.8	+ 8.8	−115	+12
12	+ 6.0	+ 7.3	−103	+38
14	+13.3	+ 4.0	− 65	+54
16	+17.3	− 0.7	− 11	+56
18	+16.6	− 5.9	+ 45	+41
20	+10.7		+ 86	

0ʰ Welt-Zeit	HYPERION $\alpha_{tr}-\alpha_{pl}$ (s)	Diff. (s)	$\delta_{tr}-\delta_{pl}$ (″)	Diff. (″)
1945				
März 20	+10.7	− 9.9	+ 86	+ 7
22	+ 0.8	−10.1	+ 93	−36
24	− 9.3	− 5.5	+ 57	−63
26	−14.8	+ 1.1	− 6	−61
28	−13.7	+ 6.0	− 67	−37
30	− 7.7	+ 8.3	−104	− 6
April 1	+ 0.6	+ 8.1	−110	+23
3	+ 8.7	+ 6.0	− 87	+43
5	+14.7	+ 2.2	− 44	+54
7	+16.9	− 2.6	+ 10	+51
9	+14.3	− 7.5	+ 61	+28
11	+ 6.8	−10.1	+ 89	− 9
13	− 3.3	− 8.5	+ 80	−48
15	−11.8	− 2.8	+ 32	−63
17	−14.6	+ 3.0	− 31	−51
19	−11.6	+ 6.9	− 82	−24
21	− 4.7	+ 8.2	−106	+ 5
23	+ 3.5	+ 7.2	−101	+30
25	+10.7	+ 4.6	− 71	+47
27	+15.3	+ 0.6	− 24	+52
29	+15.9	− 4.3	+ 28	+43
Mai 1	+11.6	− 8.5	+ 71	+16
3	+ 3.1		+ 87	
Sept. 18	− 5.3	+ 7.8	− 97	+ 7
20	+ 2.5	+ 7.3	− 90	+28
22	+ 9.8	+ 4.8	− 62	+44
24	+14.6	+ 0.6	− 18	+49
26	+15.2	− 4.8	+ 31	+37
28	+10.4	− 9.3	+ 68	+ 8
30	+ 1.1	− 9.9	+ 76	−30
Okt. 2	− 8.8	− 5.9	+ 46	−52
4	−14.7	− 0.3	− 6	−50
6	−15.0	+ 4.4	− 56	−34
8	−10.6	+ 7.2	− 90	−10
10	− 3.4	+ 8.2	−100	+14
12	+ 4.8	+ 7.0	− 86	+34
14	+11.8	+ 4.0	− 52	+48
16	+15.8		− 4	

0ʰ Welt-Zeit	HYPERION $\alpha_{tr}-\alpha_{pl}$ (s)	Diff. (s)	$\delta_{tr}-\delta_{pl}$ (″)	Diff. (″)
1945				
Okt. 16	+15.8	− 1.0	− 4	+49
18	+14.8	− 6.6	+ 45	+31
20	+ 8.2	−10.4	+ 76	− 4
22	− 2.2	− 9.4	+ 72	−40
24	−11.6	− 4.4	+ 32	−55
26	−16.0	+ 1.3	− 23	−48
28	−14.7	+ 5.6	− 71	−28
30	− 9.1	+ 8.1	− 99	− 3
Nov. 1	− 1.0	+ 8.3	−102	+22
3	+ 7.3	+ 6.6	− 80	+41
5	+13.9	+ 2.8	− 39	+51
7	+16.7	− 2.8	+ 12	+48
9	+13.9	− 8.5	+ 60	+22
11	+ 5.4	−11.2	+ 82	−17
13	− 5.8	− 8.4	+ 65	−50
15	−14.2	− 2.7	+ 15	−57
17	−16.9	+ 3.0	− 42	−44
19	−13.9	+ 6.9	− 86	−21
21	− 7.0	+ 8.7	−107	+ 5
23	+ 1.7	+ 8.4	−102	+30
25	+10.1	+ 5.8	− 72	+48
27	+15.9	+ 1.1	− 24	+54
29	+17.0	− 5.0	+ 30	+44
Dez. 1	+12.0	−10.2	+ 74	+11
3	+ 1.8	−11.2	+ 85	−32
5	− 9.4	− 6.9	+ 53	−57
7	−16.3	− 0.7	− 4	−57
9	−17.0	+ 4.8	− 61	−39
11	−12.2	+ 8.0	−100	−12
13	− 4.2	+ 9.1	−112	+14
15	+ 4.9	+ 7.9	− 98	+38
17	+12.8	+ 4.6	− 60	+54
19	+17.4	− 0.9	− 6	+55
21	+16.5	− 7.3	+ 49	+36
23	+ 9.2	−11.5	+ 85	− 3
25	− 2.3	−10.5	+ 82	−45
27	−12.8	− 4.8	+ 37	−62
29	−17.6	+ 1.5	− 25	−54
31	−16.1	+ 6.3	− 79	−32
33	− 9.8		−111	

0h Welt-Zeit	JAPETUS $\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
1945	s	s	"	"
Jan. 1	+29.6	+4.8	− 25	+25
3	+34.4	+3.9	0	+25
5	+38.3	+3.0	+ 25	+25
7	+41.3	+2.0	+ 50	+24
9	+43.3	+1.0	+ 74	+22
11	+44.3	−0.1	+ 96	+20
13	+44.2	−1.1	+116	+17
15	+43.1	−2.2	+133	+14
17	+40.9	−3.2	+147	+11
19	+37.7	−4.1	+158	+ 7
21	+33.6	−4.9	+165	+ 2
23	+28.7	−5.6	+167	− 2
25	+23.1	−6.1	+165	− 5
27	+17.0	−6.5	+160	−10
29	+10.5	−6.8	+150	−13
31	+ 3.7	−6.9	+137	−17
Febr. 2	− 3.2	−6.7	+120	−20
4	− 9.9	−6.4	+100	−23
6	−16.3	−5.9	+ 77	−25
8	−22.2	−5.3	+ 52	−26
10	−27.5	−4.5	+ 26	−27
12	−32.0	−3.6	− 1	−26
14	−35.6	−2.6	− 27	−26
16	−38.2	−1.5	− 53	−24
18	−39.7	−0.4	− 77	−22
20	−40.1	+0.7	− 99	−19
22	−39.4	+1.8	−118	−16
24	−37.6	+2.8	−134	−12
26	−34.8	+3.7	−146	− 7
28	−31.1	+4.5	−153	− 3
März 2	−26.6	+5.2	−156	0
4	−21.4	+5.7	−156	+ 5
6	−15.7	+6.0	−151	+ 8
8	− 9.7	+6.2	−143	+12
10	− 3.5	+6.3	−131	+15
12	+ 2.8	+6.2	−116	+18
14	+ 9.0	+5.9	− 98	+21
16	+14.9	+5.5	− 77	+22
18	+20.4	+5.0	− 55	+23
20	+25.4		− 32	

0h Welt-Zeit	JAPETUS $\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
1945	s	s	"	"
März 20	+25.4	+4.4	− 32	+23
22	+29.8	+3.6	− 9	+24
24	+33.4	+2.8	+ 15	+23
26	+36.2	+2.0	+ 38	+22
28	+38.2	+1.1	+ 60	+21
30	+39.3	+0.2	+ 81	+18
April 1	+39.5	−0.7	+ 99	+16
3	+38.8	−1.5	+115	+13
5	+37.3	−2.4	+128	+10
7	+34.9	−3.1	+138	+ 7
9	+31.8	−3.8	+145	+ 4
11	+28.0	−4.5	+149	0
13	+23.5	−5.0	+149	− 3
15	+18.5	−5.3	+146	− 7
17	+13.2	−5.6	+139	−10
19	+ 7.6	−5.8	+129	−13
21	+ 1.8	−5.8	+116	−15
23	− 4.0	−5.6	+101	−18
25	− 9.6	−5.4	+ 83	−19
27	−15.0	−4.9	+ 64	−21
29	−19.9	−4.4	+ 43	−22
Mai 1	−24.3	−3.8	+ 21	−22
3	−28.1		− 1	
Sept. 18	+32.3	−3.2	+ 88	+ 3
20	+29.1	−3.9	+ 91	+ 2
22	+25.2	−4.5	+ 93	0
24	+20.7	−5.1	+ 93	− 2
26	+15.6	−5.5	+ 91	− 5
28	+10.1	−5.8	+ 86	− 7
30	+ 4.3	−6.0	+ 79	− 9
Okt. 2	− 1.7	−5.9	+ 70	−10
4	− 7.6	−5.8	+ 60	−12
6	−13.4	−5.5	+ 48	−13
8	−18.9	−5.0	+ 35	−14
10	−23.9	−4.5	+ 21	−15
12	−28.4	−3.7	+ 6	−15
14	−32.1	−2.9	− 9	−15
16	−35.0		− 24	

0h Welt-Zeit	JAPETUS $\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
1945	s	s	"	"
Okt. 16	−35.0	−1.9	− 24	−14
18	−36.9	−0.9	− 38	−13
20	−37.8	0.0	− 51	−11
22	−37.8	+1.1	− 62	−10
24	−36.7	+2.0	− 72	− 8
26	−34.7	+3.0	− 80	− 7
28	−31.7	+3.8	− 87	− 4
30	−27.9	+4.5	− 91	− 2
Nov. 1	−23.4	+5.2	− 93	+ 1
3	−18.2	+5.7	− 92	+ 3
5	−12.5	+6.0	− 89	+ 5
7	− 6.5	+6.3	− 84	+ 7
9	− 0.2	+6.3	− 77	+ 9
11	+ 6.1	+6.2	− 68	+11
13	+12.3	+6.0	− 57	+12
15	+18.3	+5.6	− 45	+14
17	+23.9	+5.1	− 31	+14
19	+29.0	+4.4	− 17	+15
21	+33.4	+3.7	− 2	+15
23	+37.1	+2.8	+ 13	+15
25	+39.9	+1.9	+ 28	+15
27	+41.8	+0.9	+ 43	+14
29	+42.7	0.0	+ 57	+12
Dez. 1	+42.7	−1.1	+ 69	+11
3	+41.6	−2.1	+ 80	+10
5	+39.5	−3.1	+ 90	+ 7
7	+36.4	−4.0	+ 97	+ 5
9	+32.4	−4.8	+102	+ 3
11	+27.6	−5.6	+105	0
13	+22.0	−6.2	+105	− 3
15	+15.8	−6.6	+102	− 5
17	+ 9.2	−6.9	+ 97	− 8
19	+ 2.3	−6.9	+ 89	−11
21	− 4.6	−6.8	+ 78	−13
23	−11.4	−6.6	+ 65	−15
25	−18.0	−6.1	+ 50	−16
27	−24.1	−5.5	+ 34	−18
29	−29.6	−4.6	+ 16	−18
31	−34.2	−3.7	− 2	−19
33	−37.9		− 21	

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h			h			h			h			h
Jan.	0	16.8	Febr.	16	19.6	April	4	22.7	Okt.	3	21.4	Nov.	20	0.2
	1	15.4		17	18.2		5	21.3		4	20.0		20	22.9
	2	14.0		18	16.8		6	19.9		5	18.6		21	21.5
	3	12.7		19	15.4		7	18.6		6	17.2		22	20.1
	4	11.3		20	14.0		8	17.2		7	15.8		23	18.7
	5	9.9		21	12.7		9	15.8		8	14.4		24	17.3
	6	8.5		22	11.3		10	14.4		9	13.0		25	15.9
	7	7.1		23	9.9		11	13.1		10	11.6		26	14.5
	8	5.7		24	8.5		12	11.7		11	10.3		27	13.1
	9	4.3		25	7.1		13	10.3		12	8.9		28	11.8
	10	2.9		26	5.7		14	8.9		13	7.5		29	10.4
	11	1.5		27	4.4		15	7.5		14	6.1		30	9.0
	12	0.2		28	3.0		16	6.2		15	4.8	Dez.	1	7.6
	12	22.8	März	1	1.6		17	4.8		16	3.4		2	6.2
	13	21.4		2	0.2		18	3.4		17	2.0		3	4.8
	14	20.0		2	22.9		19	2.0		18	0.6		4	3.4
	15	18.6		3	21.5		20	0.7		18	23.2		5	2.0
	16	17.2		4	20.1		20	23.3		19	21.9		6	0.7
	17	15.8		5	18.7		21	21.9		20	20.5		6	23.3
	18	14.4		6	17.4		22	20.5		21	19.1		7	21.9
	19	13.1		7	16.0		23	19.2		22	17.7		8	20.5
	20	11.7		8	14.6		24	17.8		23	16.3		9	19.1
	21	10.3		9	13.2		25	16.4		24	14.9		10	17.7
	22	8.9		10	11.9		26	15.0		25	13.5		11	16.3
	23	7.5		11	10.5		27	13.7		26	12.1		12	14.9
	24	6.1		12	9.1		28	12.3		27	10.8		13	13.5
	25	4.7		13	7.7		29	10.9		28	9.4		14	12.2
	26	3.3		14	6.3		30	9.5		29	8.0		15	10.8
	27	1.9		15	5.0	Mai	1	8.2		30	6.6		16	9.4
	28	0.6		16	3.6		2	6.8		31	5.3		17	8.0
	28	23.2		17	2.2		3	5.4	Nov.	1	3.9		18	6.7
	29	21.8		18	0.8					2	2.5		19	5.3
	30	20.4		18	23.5					3	1.1		20	3.9
	31	19.1		19	22.1			h		3	23.7		21	2.5
Febr.	1	17.7		20	20.7	Sept.	18	19.5		4	22.4		22	1.1
	2	16.3		21	19.3		19	18.1		5	21.0		22	23.8
	3	14.9		22	18.0		20	16.7		6	19.6		23	22.4
	4	13.5		23	16.6		21	15.3		7	18.2		24	21.0
	5	12.2		24	15.2		22	13.9		8	16.8		25	19.6
	6	10.8		25	13.8		23	12.5		9	15.4		26	18.2
	7	9.4		26	12.5		24	11.1		10	14.0		27	16.8
	8	8.0		27	11.1		25	9.8		11	12.6		28	15.4
	9	6.6		28	9.7		26	8.4		12	11.3		29	14.0
	10	5.2		29	8.3		27	7.0		13	9.9		30	12.7
	11	3.8		30	6.9		28	5.6		14	8.5		31	11.3
	12	2.4		31	5.6		29	4.3		15	7.1		32	9.9
	13	1.1	April	1	4.2		30	2.9		16	5.8			
	13	23.7		2	2.8	Okt.	1	1.5		17	4.4			
	14	22.3		3	1.4		2	0.1		18	3.0			
	15	20.9		4	0.1		2	22.7		19	1.6			

Östliche Elongationen (in Welt-Zeit)

ENCELADUS

		h
Jan.	0	7.5
	1	16.4
	3	1.3
	4	10.2
	5	19.0
	7	3.9
	8	12.8
	9	21.6
	11	6.5
	12	15.4
	14	0.3
	15	9.1
	16	18.0
	18	2.9
	19	11.8
	20	20.6
	22	5.5
	23	14.4
	24	23.3
	26	8.2
	27	17.1
	29	1.9
	30	10.8
	31	19.7
Febr.	2	4.6
	3	13.5
	4	22.4
	6	7.2
	7	16.1
	9	1.0
	10	9.9
	11	18.8
	13	3.6
	14	12.5
	15	21.4
	17	6.3
	18	15.2
	20	0.1
	21	8.9
	22	17.8
	24	2.7
	25	11.6
	26	20.5
	28	5.4
März	1	14.3
	2	23.2

ENCELADUS

		h
März	4	8.1
	5	16.9
	7	1.8
	8	10.7
	9	19.6
	11	4.5
	12	13.4
	13	22.3
	15	7.2
	16	16.1
	18	1.0
	19	9.9
	20	18.8
	22	3.6
	23	12.5
	24	21.4
	26	6.3
	27	15.2
	29	0.1
	30	9.0
	31	17.9
April	2	2.8
	3	11.7
	4	20.6
	6	5.4
	7	14.3
	8	23.2
	10	8.1
	11	17.0
	13	1.9
	14	10.8
	15	19.7
	17	4.6
	18	13.5
	19	22.4
	21	7.3
	22	16.2
	24	1.1
	25	10.0
	26	18.9
	28	3.8
	29	12.7
	30	21.6
Mai	2	6.5
	3	15.4

ENCELADUS

		h
Sept.	19	2.4
	20	11.3
	21	20.2
	23	5.1
	24	14.0
	25	22.9
	27	7.8
	28	16.7
	30	1.5
Okt.	1	10.4
	2	19.3
	4	4.2
	5	13.1
	6	22.0
	8	6.9
	9	15.8
	11	0.7
	12	9.5
	13	18.4
	15	3.3
	16	12.2
	17	21.1
	19	6.0
	20	14.8
	21	23.7
	23	8.6
	24	17.5
	26	2.4
	27	11.2
	28	20.1
	30	5.0
	31	13.9
Nov.	1	22.8
	3	7.7
	4	16.5
	6	1.4
	7	10.3
	8	19.2
	10	4.1
	11	13.0
	12	21.8
	14	6.7
	15	15.6
	17	0.5

ENCELADUS

		h
Nov.	18	9.4
	19	18.3
	21	3.1
	22	12.0
	23	20.9
	25	5.8
	26	14.6
	27	23.5
	29	8.4
	30	17.3
Dez.	2	2.1
	3	11.0
	4	19.9
	6	4.8
	7	13.6
	8	22.5
	10	7.4
	11	16.3
	13	1.1
	14	10.0
	15	18.9
	17	3.8
	18	12.6
	19	21.5
	21	6.4
	22	15.3
	24	0.1
	25	9.0
	26	17.9
	28	2.7
	29	11.6
	30	20.5
	32	5.4

TETHYS

		h
Jan.	0	18.3
	2	15.6
	4	12.8
	6	10.1
	8	7.4
	10	4.7

TETHYS

		h
Jan.	12	2.0
	13	23.3
	15	20.6
	17	17.8
	19	15.1
	21	12.4
	23	9.7
	25	7.0
	27	4.3
	29	1.6
	30	22.9
Febr.	1	20.2
	3	17.5
	5	14.8
	7	12.1
	9	9.4
	11	6.7
	13	4.0
	15	1.3
	16	22.6
	18	19.9
	20	17.2
	22	14.5
	24	11.8
	26	9.1
	28	6.4
März	2	3.7
	4	1.0
	5	22.4
	7	19.7
	9	17.0
	11	14.3
	13	11.6
	15	8.9
	17	6.3
	19	3.6
	21	0.9
	22	22.2
	24	19.5
	26	16.9
	28	14.2
	30	11.5
April	1	8.8
	3	6.2
	5	3.5
	7	0.8

Östliche Elongationen (in Welt-Zeit)

TETHYS

		h
April	8	22.1
	10	19.5
	12	16.8
	14	14.1
	16	11.4
	18	8.8
	20	6.1
	22	3.4
	24	0.7
	25	22.0
	27	19.4
	29	16.7
Mai	1	14.0
	3	11.4

		h
Sept.	18	9.0
	20	6.3
	22	3.6
	24	0.9
	25	22.3
	27	19.6
	29	16.9
Okt.	1	14.2
	3	11.6
	5	8.9
	7	6.2
	9	3.5
	11	0.8
	12	22.1
	14	19.4
	16	16.8
	18	14.1
	20	11.4
	22	8.7
	24	6.0
	26	3.3
	28	0.6
	29	21.9
	31	19.2
Nov.	2	16.5
	4	13.8
	6	11.1
	8	8.4
	10	5.7

TETHYS

		h
Nov.	12	3.0
	14	0.3
	15	21.6
	17	18.9
	19	16.2
	21	13.5
	23	10.8
	25	8.1
	27	5.4
	29	2.7
Dez.	1	0.0
	2	21.3
	4	18.6
	6	15.9
	8	13.2
	10	10.5
	12	7.8
	14	5.1
	16	2.4
	17	23.7
	19	20.9
	21	18.2
	23	15.5
	25	12.8
	27	10.1
	29	7.4
	31	4.7
	33	1.9

DIONE

		h
Jan.	2	10.5
	5	4.1
	7	21.8
	10	15.4
	13	9.1
	16	2.7
	18	20.4
	21	14.0
	24	7.7
	27	1.3
	29	19.0
Febr.	1	12.6

DIONE

		h
Febr.	4	6.3
	6	23.9
	9	17.6
	12	11.3
	15	5.0
	17	22.6
	20	16.3
	23	9.9
	26	3.6
	28	21.3
März	3	15.0
	6	8.7
	9	2.4
	11	20.1
	14	13.8
	17	7.5
	20	1.2
	22	18.9
	25	12.6
	28	6.3
	31	0.0
April	2	17.7
	5	11.5
	8	5.2
	10	23.0
	13	16.7
	16	10.4
	19	4.1
	21	21.9
	24	15.6
	27	9.4
	30	3.1
Mai	2	20.8

		h
Sept.	19	13.9
	22	7.6
	25	1.3
	27	19.0
	30	12.7
Okt.	3	6.5
	6	0.2
	8	17.9
	11	11.6
	14	5.3

DIONE

		h
Okt.	16	23.1
	19	16.8
	22	10.5
	25	4.2
	27	21.9
	30	15.6
Nov.	2	9.2
	5	2.9
	7	20.6
	10	14.3
	13	8.0
	16	1.6
	18	19.3
	21	12.9
	24	6.6
	27	0.3
	29	18.0
Dez.	2	11.6
	5	5.3
	7	22.9
	10	16.6
	13	10.2
	16	3.9
	18	21.5
	21	15.2
	24	8.8
	27	2.5
	29	20.1
	32	13.7

RHEA

		h
Jan.	0	7.6
	4	19.9
	9	8.2
	13	20.5
	18	8.9
	22	21.2
	27	9.5
	31	21.8
Febr.	5	10.2
	9	22.5

RHEA

		h
Febr.	14	10.9
	18	23.3
	23	11.6
	28	0.0
März	4	12.4
	9	0.9
	13	13.3
	18	1.8
	22	14.3
	27	2.7
	31	15.2
April	5	3.7
	9	16.3
	14	4.8
	18	17.3
	23	5.8
	27	18.4
Mai	2	6.9

		h
Sept.	19	13.1
	24	1.6
	28	14.1
Okt.	3	2.7
	7	15.2
	12	3.7
	16	16.2
	21	4.6
	25	17.1
	30	5.5
Nov.	3	18.0
	8	6.4
	12	18.8
	17	7.2
	21	19.5
	26	7.9
	30	20.3
Dez.	5	8.6
	9	21.0
	14	9.3
	18	21.7
	23	10.0
	27	22.3
	32	10.6

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN

		h	
Jan.	0	18.1	Östl. El.
	4	15.7	Unt. Konj.
	8	10.4	Westl. El.
	12	11.3	Ob. Konj.
	16	15.3	Östl. El.
	20	13.1	Unt. Konj.
	24	7.8	Westl. El.
	28	8.6	Ob. Konj.
Febr.	1	12.8	Öst. El.
	5	10.7	Unt. Konj.
	9	5.5	Westl. El.
	13	6.3	Ob. Konj.
	17	10.7	Östl. El.
	21	8.8	Unt. Konj.
	25	3.7	Westl. El.
März	1	4.6	Ob. Konj.
	5	9.1	Östl. El.
	9	7.4	Unt. Konj.
	13	2.4	West. El.
	17	3.5	Ob. Konj.
	21	8.1	Östl. El.
	25	6.5	Unt. Konj.
	29	1.6	Westl. El.
April	2	2.9	Ob. Konj.
	6	7.7	Östl. El.
	10	6.1	Unt. Konj.
	14	1.3	Westl. El.
	18	2.8	Ob. Konj.
	22	7.7	Östl. El.
	26	6.1	Unt. Konj.
	30	1.5	Westl. El.
Mai	4	3.2	Ob. Konj.
		h	
Sept.	21	8.2	Westl. El.
	25	11.1	Ob. Konj.
	29	15.1	Östl. El.
Okt.	3	12.1	Unt. Konj.
	7	8.0	Westl. El.
	11	10.9	Ob. Konj.
	15	14.7	Östl. El.
	19	11.5	Unt. Konj.
	23	7.3	Westl. El.
	27	10.2	Ob. Konj.

TITAN

		h	
Okt.	31	13.8	Östl. El.
Nov.	4	10.5	Unt. Konj.
	8	6.2	Westl. El.
	12	8.9	Ob. Konj.
	16	12.4	Östl. El.
	20	9.0	Unt. Konj.
	24	4.6	Westl. El.
	28	7.1	Ob. Konj.
Dez.	2	10.5	Östl. El.
	6	7.0	Unt. Konj.
	10	2.5	Westl. El.
	14	4.8	Ob. Konj.
	18	8.2	Östl. El.
	22	4.6	Unt. Konj.
	26	0.0	Westl. El.
	30	2.2	Ob. Konj.

HYPERION

		h	
Jan.	1	1.6	Westl. El.
	6	13.3	Ob. Konj.
	13	0.4	Östl. El.
	17	22.5	Unt. Konj.
	22	3.5	Westl. El.
	27	14.8	Ob. Konj.
Febr.	3	2.2	Östl. El.
	8	0.7	Unt. Konj.
	12	5.8	Westl. El.
	17	17.3	Ob. Konj.
	24	5.0	Östl. El.
März	1	3.7	Unt. Konj.
	5	9.0	Westl. El.
	10	21.2	Ob. Konj.
	17	9.3	Östl. El.
	22	7.8	Unt. Konj.
	26	13.4	Westl. El.
April	1	2.8	Ob. Konj.
	7	15.1	Östl. El.
	12	13.1	Unt. Konj.
	16	19.1	Westl. El.
	22	9.9	Ob. Konj.
	28	22.4	Östl. El.
Mai	3	19.4	Unt. Konj.

HYPERION

		h	
Sept.	19	15.1	Ob. Konj.
	25	21.6	Östl. El.
	30	9.5	Unt. Konj.
Okt.	4	20.7	Westl. El.
	11	2.1	Ob. Konj.
	17	7.6	Östl. El.
	21	18.7	Unt. Konj.
	26	6.2	Westl. El.
Nov.	1	12.1	Ob. Konj.
	7	16.8	Östl. El.
	12	3.3	Unt. Konj.
	16	14.9	Westl. El.
	22	20.9	Ob. Konj.
	29	1.1	Östl. El.
Dez.	3	11.4	Unt. Konj.
	7	22.8	Westl. El.
	14	4.5	Ob. Konj.
	20	8.6	Östl. El.
	24	18.8	Unt. Konj.
	29	5.9	Westl. El.

JAPETUS

		h	
Jan.	12	10.1	Östl. El.
Febr.	1	14.5	Unt. Konj.
	20	12.6	Westl. El.
März	11	15.6	Ob. Konj.
April	1	9.1	Östl. El.
	22	4.3	Unt. Konj.
		h	
Okt.	1	16.3	Unt. Konj.
	20	18.6	Westl. El.
Nov.	9	6.8	Ob. Konj.
	29	22.7	Östl. El.
Dez.	19	21.8	Unt. Konj.

Konstellationen 1945

Welt-Zeit 1945	h	m	
Jan. 1	23		♁ i. kleinst. Abst. v. ☉
2	13		☿ stationär in AR.
4	20	21	♃ ☌ ☾
5	14	30	♆ ☌ ☾
8	10		♆ stationär in AR.
12	8	12	☿ ☌ ☾
12	20		♃ stationär in AR.
12	21	2	♂ ☌ ☾
13	3		☿ gr. westl. El. 23° 40′
14	—		☉ ringf. Finsternis
17	14	1	♀ ☌ ☾
23	18	8	♅ ☌ ☾
25	17	34	♄ ☌ ☾
26	15		☿ ☌ ♂, ☿ 0° 22′ N.
Febr. 1	3	29	♃ ☌ ☾
1	22	13	♆ ☌ ☾
2	18		☿ im Aphel
2	23		♀ gr. östl. El. 46° 52′
10	21	38	♂ ☌ ☾
11	19	10	☿ ☌ ☾
15	20	7	♀ ☌ ☾
15	23		♅ stationär in AR.
19	23	8	♅ ☌ ☾
21	21	3	♄ ☌ ☾
28	0		☿ obere ☌ ☉
28	5	43	♃ ☌ ☾
28	17		♀ im Perihel
März 1	4	26	♆ ☌ ☾
5	22		♄ stationär in AR.
10	8		♀ im größten Glanze
11	21	3	♂ ☌ ☾
14	3		♃ ☍ ☉
14	21	56	☿ ☌ ☾
16	10	30	♀ ☌ ☾
18	18		☿ im Perihel
19	6	34	♅ ☌ ☾
20	23	38	Frühlingsanfang
21	2	54	♄ ☌ ☾
24	14		♀ stationär in AR.
26	9		☿ gr. östl. El. 18° 46′
26	17		♆ ☍ ☉
27	5	13	♃ ☌ ☾
28	9	21	♆ ☌ ☾

Welt-Zeit 1945	h	m	
April 3	11		☿ stationär in AR.
9	19	7	♂ ☌ ☾
12	10	54	☿ ☌ ☾
12	12	58	♀ ☌ ☾
13	2		☿ untere ☌ ☉
13	23		♀ untere ☌ ☉
15	17	16	♅ ☌ ☾
17	12	52	♄ ☌ ☾
23	5	50	♃ ☌ ☾
24	13	53	♆ ☌ ☾
25	23		☿ stationär in AR.
26	18		☿ ☌ ♀, ☿ 6° 15′ S.
Mai 1	18		☿ im Aphel
4	12		♀ stationär in AR.
8	16	0	♂ ☌ ☾
9	10	53	♀ ☌ ☾
9	17		♂ im Perihel
9	23	2	☿ ☌ ☾
11	12		☿ gr. westl. El. 26° 13′
13	6	7	♅ ☌ ☾
15	2	31	♄ ☌ ☾
15	6		♃ stationär in AR.
20	10	53	♃ ☌ ☾
21	15		♀ im größten Glanze
21	19	12	♆ ☌ ☾
Juni 4	6		♅ ☌ ☉
6	11	51	♂ ☌ ☾
6	21	17	♀ ☌ ☾
9	13	55	☿ ☌ ☾
9	19	4	♅ ☌ ☾
11	1		☿ ☌ ♅, ☿ 0° 11′ N.
11	18	2	♄ ☌ ☾
14	17		☿ im Perihel
15	10		♆ stationär in AR.
16	1		☿ obere ☌ ☉
16	21	22	♃ ☌ ☾
18	2	9	♆ ☌ ☾
20	23		♀ im Aphel
21	18	52	Sommersanfang
24	11		♀ ☌ ♄, ♀ 2° 12′ N.
24	18		♀ gr. westl. El. 45° 46′
25	—		☾ partielle Finsternis

Welt-Zeit 1945		h	m	
Juli	5	6	26	♂ ☌ ☾
	5	10		♁ i. größt. Abst. v. ☉
	6	2	27	♀ ☌ ☾
	6	20		♄ ☌ ☉
	7	6	23	♅ ☌ ☾
	9	—	—	☉ totale Finsternis
	9	9	29	♄ ☌ ☾
	11	10	17	☿ ☌ ☾
	14	12	12	♃ ☌ ☾
	15	10	41	♆ ☌ ☾
	22	10		♀ ☌ ♅, ♀ 2° 36′ S.
	23	20		☿ gr. östl. El. 27° 1′
	28	17		☿ im Aphel
Aug.	2	23	7	♂ ☌ ☾
	3	15	17	♅ ☌ ☾
	4	15	46	♀ ☌ ☾
	5	22		☿ stationär in AR.
	5	23	22	♄ ☌ ☾
	9	6	50	☿ ☌ ☾
	11	5	38	♃ ☌ ☾
	11	20	5	♆ ☌ ☾
	17	15		♂ ☌ ♅, ♂ 0° 24′ S.
	19	17		☿ untere ☌ ☉
	22	4		♀ ☌ ♄, ♀ 0° 41′ S.
	29	14		☿ stationär in AR.
	30	22	11	♅ ☌ ☾
	31	13	7	♂ ☌ ☾
Sept.	2	10	57	♄ ☌ ☾
	3	10	41	♀ ☌ ☾
	4	21	49	☿ ☌ ☾
	6	13		☿ gr. westl. El. 18° 1′
	8	0	4	♃ ☌ ☾
	8	5	22	♆ ☌ ☾
	10	16		☿ im Perihel
	23	3		♃ ☌ ♆, ♃ 0° 20′ S.
	23	7		♅ stationär in AR.
	23	9	50	Herbstanfang
	27	4	39	♅ ☌ ☾
	28	23	39	♂ ☌ ☾
	29	20	26	♄ ☌ ☾
	30	8		♆ ☌ ☉
	30	23		☿ ☌ ♆, ☿ 0° 1′ S.

Welt-Zeit 1945		h	m	
Okt.	1	17		☿ obere ☌ ☉
	1	21		☿ ☌ ♃, ☿ 0° 14′ N.
	2	1		♃ ☌ ☉
	3	11	39	♀ ☌ ☾
	5	13	54	♆ ☌ ☾
	5	18	27	♃ ☌ ☾
	6	8	5	☿ ☌ ☾
	11	8		♀ im Perihel
	24	12	18	♅ ☌ ☾
	24	16		☿ im Aphel
	24	20		♀ ☌ ♆, ♀ 0° 11′ N.
	26	7		♂ ☌ ♄, ♂ 1° 24′ N.
	27	4	48	♄ ☌ ☾
	27	5	25	♂ ☌ ☾
	30	8		♀ ☌ ♃, ♀ 0° 31′ N.
Nov.	1	21	41	♆ ☌ ☾
	2	12	19	♃ ☌ ☾
	2	19	51	♀ ☌ ☾
	6	16		♄ stationär in AR.
	6	17	7	☿ ☌ ☾
	17	20		☿ gr. östl. El. 22° 25′
	20	21	29	♅ ☌ ☾
	23	13	6	♄ ☌ ☾
	24	3	21	♂ ☌ ☾
	27	14		☿ stationär in AR.
	29	5	18	♆ ☌ ☾
	30	5	25	♃ ☌ ☾
Dez.	3	9	21	♀ ☌ ☾
	5	5	23	☿ ☌ ☾
	5	19		♂ stationär in AR.
	7	12		☿ untere ☌ ☉
	7	16		☿ im Perihel
	7	21		♅ ☍ ☉
	13	3		☿ ☌ ♀, ☿ 2° 8′ N.
	17	7		☿ stationär in AR.
	18	6	52	♅ ☌ ☾
	18	22		♃ im Aphel
	19	—		☾ totale Finsternis
	20	21	17	♄ ☌ ☾
	21	12	5	♂ ☌ ☾
	22	5	4	Wintersanfang
	26	13	24	♆ ☌ ☾
	26	15		☿ gr. westl. El. 22° 12′
	27	21	18	♃ ☌ ☾

Sonnenaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
Jan. 0	4 34	5 2	5 23	5 42	5 59	6 17	6 35	6 56	7 22	7 39	7 59	8 25	9 3	10 8	
1	4 35	5 2	5 24	5 43	6 0	6 17	6 35	6 56	7 22	7 39	7 59	8 25	9 3	10 7	
2	4 36	5 3	5 25	5 43	6 0	6 17	6 36	6 56	7 22	7 39	7 59	8 25	9 2	10 6	
3	4 37	5 4	5 25	5 44	6 1	6 18	6 36	6 56	7 22	7 39	7 59	8 25	9 2	10 5	
4	4 37	5 4	5 26	5 44	6 1	6 18	6 36	6 57	7 22	7 39	7 58	8 24	9 1	10 3	
5	4 38	5 5	5 26	5 45	6 2	6 19	6 36	6 57	7 22	7 39	7 58	8 24	9 0	10 1	
6	4 39	5 6	5 27	5 46	6 2	6 19	6 37	6 57	7 22	7 38	7 58	8 23	8 59	10 0	
7	4 40	5 7	5 28	5 46	6 3	6 19	6 37	6 57	7 22	7 38	7 58	8 23	8 59	9 58	
8	4 41	5 8	5 28	5 47	6 3	6 20	6 37	6 57	7 22	7 38	7 57	8 22	8 58	9 56	
9	4 42	5 9	5 29	5 47	6 4	6 20	6 37	6 57	7 22	7 38	7 57	8 22	8 56	9 54	
10	4 43	5 9	5 30	5 48	6 4	6 20	6 38	6 57	7 22	7 37	7 56	8 21	8 55	9 51	
11	4 44	5 10	5 31	5 48	6 4	6 21	6 38	6 57	7 22	7 37	7 56	8 20	8 54	9 49	
12	4 45	5 11	5 31	5 49	6 5	6 21	6 38	6 57	7 22	7 37	7 55	8 19	8 53	9 47	
13	4 46	5 12	5 32	5 49	6 5	6 21	6 38	6 57	7 21	7 36	7 55	8 18	8 51	9 44	
14	4 47	5 13	5 32	5 50	6 5	6 21	6 38	6 57	7 21	7 36	7 54	8 17	8 50	9 42	
15	4 49	5 14	5 33	5 50	6 6	6 22	6 38	6 57	7 21	7 35	7 53	8 16	8 49	9 39	
16	4 50	5 14	5 34	5 51	6 6	6 22	6 38	6 57	7 20	7 35	7 52	8 15	8 47	9 37	h m
17	4 51	5 15	5 34	5 51	6 6	6 22	6 38	6 57	7 20	7 34	7 52	8 14	8 45	9 34	11 50
18	4 52	5 16	5 35	5 52	6 7	6 22	6 38	6 56	7 19	7 33	7 51	8 13	8 44	9 31	11 31
19	4 53	5 17	5 36	5 52	6 7	6 22	6 38	6 56	7 19	7 33	7 50	8 12	8 42	9 29	11 19
20	4 54	5 18	5 36	5 53	6 7	6 22	6 38	6 56	7 18	7 32	7 49	8 10	8 40	9 26	11 8
21	4 55	5 19	5 37	5 53	6 8	6 22	6 38	6 56	7 18	7 31	7 48	8 9	8 38	9 23	10 59
22	4 57	5 20	5 38	5 54	6 8	6 23	6 38	6 55	7 17	7 30	7 47	8 8	8 36	9 20	10 51
23	4 58	5 20	5 38	5 54	6 8	6 23	6 38	6 55	7 16	7 30	7 46	8 6	8 34	9 17	10 44
24	4 59	5 21	5 39	5 55	6 9	6 23	6 38	6 55	7 16	7 29	7 45	8 5	8 32	9 14	10 36
25	5 0	5 22	5 40	5 55	6 9	6 23	6 37	6 54	7 15	7 28	7 43	8 3	8 30	9 11	10 30
26	5 1	5 23	5 40	5 55	6 9	6 23	6 37	6 54	7 14	7 27	7 42	8 2	8 28	9 8	10 23
27	5 3	5 24	5 41	5 56	6 9	6 23	6 37	6 53	7 13	7 26	7 41	8 0	8 26	9 5	10 17
28	5 4	5 25	5 42	5 56	6 10	6 23	6 37	6 53	7 12	7 25	7 40	7 59	8 24	9 2	10 11
29	5 5	5 26	5 42	5 57	6 10	6 23	6 37	6 52	7 12	7 24	7 38	7 57	8 22	8 58	10 5
30	5 6	5 27	5 43	5 57	6 10	6 23	6 36	6 52	7 11	7 23	7 37	7 55	8 20	8 55	9 59
31	5 7	5 28	5 43	5 57	6 10	6 23	6 36	6 51	7 10	7 22	7 36	7 54	8 17	8 52	9 53
Febr. 1	5 9	5 28	5 44	5 58	6 10	6 23	6 36	6 51	7 9	7 20	7 34	7 52	8 15	8 49	9 48
2	5 10	5 29	5 45	5 58	6 10	6 23	6 35	6 50	7 8	7 19	7 33	7 50	8 13	8 46	9 42
3	5 11	5 30	5 45	5 58	6 10	6 22	6 35	6 50	7 7	7 18	7 31	7 48	8 10	8 42	9 37
4	5 12	5 31	5 46	5 59	6 11	6 22	6 35	6 49	7 6	7 17	7 30	7 46	8 8	8 39	9 31
5	5 14	5 32	5 46	5 59	6 11	6 22	6 34	6 48	7 5	7 16	7 28	7 44	8 5	8 36	9 26
6	5 15	5 33	5 47	5 59	6 11	6 22	6 34	6 47	7 4	7 14	7 27	7 42	8 3	8 32	9 21
7	5 16	5 34	5 47	6 0	6 11	6 22	6 34	6 47	7 3	7 13	7 25	7 40	8 0	8 29	9 16
8	5 17	5 34	5 48	6 0	6 11	6 22	6 33	6 46	7 2	7 12	7 24	7 38	7 58	8 26	9 10
9	5 19	5 35	5 49	6 0	6 11	6 21	6 33	6 45	7 1	7 10	7 22	7 36	7 55	8 22	9 5
10	5 20	5 36	5 49	6 0	6 11	6 21	6 32	6 44	7 0	7 9	7 20	7 34	7 53	8 19	9 0

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Jan. 0	19 32	19 5	18 43	18 24	18 7	17 50	17 31	17 11	16 44	16 28	16 8	15 41	15 3	13 58	
1	19 32	19 5	18 43	18 24	18 7	17 50	17 32	17 11	16 45	16 29	16 9	15 42	15 5	14 0	
2	19 32	19 5	18 44	18 25	18 8	17 51	17 33	17 12	16 46	16 30	16 10	15 43	15 6	14 3	
3	19 32	19 5	18 44	18 25	18 8	17 51	17 33	17 13	16 47	16 31	16 11	15 45	15 8	14 5	
4	19 32	19 5	18 44	18 25	18 9	17 52	17 34	17 14	16 48	16 32	16 12	15 46	15 9	14 7	
5	19 32	19 5	18 44	18 26	18 9	17 52	17 35	17 14	16 49	16 33	16 13	15 47	15 11	14 10	
6	19 32	19 6	18 45	18 26	18 10	17 53	17 35	17 15	16 50	16 34	16 14	15 49	15 13	14 13	
7	19 32	19 6	18 45	18 27	18 10	17 53	17 36	17 16	16 51	16 35	16 15	15 50	15 15	14 15	
8	19 32	19 6	18 45	18 27	18 10	17 54	17 37	17 17	16 52	16 36	16 17	15 52	15 17	14 18	
9	19 32	19 6	18 45	18 27	18 11	17 55	17 37	17 17	16 53	16 37	16 18	15 53	15 18	14 21	
10	19 32	19 6	18 45	18 28	18 11	17 55	17 38	17 18	16 54	16 38	16 19	15 55	15 20	14 24	
11	19 32	19 6	18 45	18 28	18 12	17 56	17 39	17 19	16 55	16 39	16 21	15 56	15 23	14 27	
12	19 31	19 6	18 45	18 28	18 12	17 56	17 39	17 20	16 56	16 41	16 22	15 58	15 25	14 30	
13	19 31	19 6	18 46	18 28	18 12	17 57	17 40	17 21	16 57	16 42	16 23	16 0	15 27	14 34	
14	19 31	19 5	18 46	18 29	18 13	17 57	17 40	17 22	16 58	16 43	16 25	16 1	15 29	14 37	
15	19 30	19 5	18 46	18 29	18 13	17 58	17 41	17 23	16 59	16 44	16 26	16 3	15 31	14 40	
16	19 30	19 5	18 46	18 29	18 14	17 58	17 42	17 23	17 0	16 46	16 28	16 5	15 33	14 44	h m
17	19 29	19 5	18 46	18 29	18 14	17 59	17 42	17 24	17 1	16 47	16 29	16 7	15 36	14 47	12 32
18	19 29	19 5	18 46	18 29	18 14	17 59	17 43	17 25	17 2	16 48	16 31	16 9	15 38	14 50	12 51
19	19 28	19 4	18 46	18 29	18 15	18 0	17 44	17 26	17 3	16 49	16 32	16 10	15 40	14 54	13 4
20	19 28	19 4	18 46	18 29	18 15	18 0	17 44	17 27	17 5	16 51	16 34	16 12	15 43	14 57	13 15
21	19 27	19 4	18 46	18 30	18 15	18 0	17 45	17 28	17 6	16 52	16 36	16 14	15 45	15 1	13 24
22	19 26	19 3	18 45	18 30	18 15	18 1	17 46	17 29	17 7	16 53	16 37	16 16	15 48	15 4	13 33
23	19 26	19 3	18 45	18 30	18 16	18 1	17 46	17 29	17 8	16 55	16 39	16 18	15 50	15 8	13 41
24	19 25	19 3	18 45	18 30	18 16	18 2	17 47	17 30	17 9	16 56	16 40	16 20	15 53	15 11	13 49
25	19 24	19 2	18 45	18 30	18 16	18 2	17 48	17 31	17 10	16 58	16 42	16 22	15 55	15 15	13 56
26	19 23	19 2	18 45	18 30	18 16	18 3	17 48	17 32	17 12	16 59	16 44	16 24	15 58	15 18	14 3
27	19 23	19 1	18 45	18 30	18 16	18 3	17 49	17 33	17 13	17 0	16 45	16 26	16 0	15 22	14 10
28	19 22	19 1	18 44	18 30	18 17	18 3	17 49	17 34	17 14	17 2	16 47	16 28	16 3	15 25	14 17
29	19 21	19 0	18 44	18 30	18 17	18 4	17 50	17 35	17 15	17 3	16 49	16 30	16 5	15 29	14 23
30	19 20	19 0	18 44	18 30	18 17	18 4	17 51	17 35	17 16	17 5	16 50	16 32	16 8	15 33	14 29
31	19 19	18 59	18 43	18 30	18 17	18 4	17 51	17 36	17 17	17 6	16 52	16 34	16 11	15 36	14 35
Febr. 1	19 18	18 59	18 43	18 30	18 17	18 5	17 52	17 37	17 19	17 7	16 54	16 37	16 13	15 40	14 41
2	19 17	18 58	18 43	18 29	18 17	18 5	17 52	17 38	17 20	17 9	16 55	16 39	16 16	15 43	14 47
3	19 16	18 57	18 42	18 29	18 17	18 6	17 53	17 39	17 21	17 10	16 57	16 41	16 19	15 47	14 53
4	19 15	18 57	18 42	18 29	18 18	18 6	17 54	17 40	17 22	17 12	16 59	16 43	16 21	15 50	14 58
5	19 14	18 56	18 42	18 29	18 18	18 6	17 54	17 40	17 24	17 13	17 1	16 45	16 24	15 54	15 4
6	19 13	18 55	18 41	18 29	18 18	18 6	17 55	17 41	17 25	17 15	17 2	16 47	16 27	15 57	15 9
7	19 12	18 54	18 41	18 29	18 18	18 7	17 55	17 42	17 26	17 16	17 4	16 49	16 29	16 1	15 14
8	19 11	18 54	18 40	18 29	18 18	18 7	17 56	17 43	17 27	17 17	17 6	16 51	16 32	16 4	15 20
9	19 9	18 53	18 40	18 28	18 18	18 7	17 56	17 44	17 28	17 19	17 7	16 53	16 34	16 8	15 25
10	19 8	18 52	18 39	18 28	18 18	18 8	17 57	17 45	17 30	17 20	17 9	16 55	16 37	16 11	15 30

Sonnenaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Febr. 10	5 20	5 36	5 49	6 0	6 11	6 21	6 32	6 44	7 0	7 9	7 20	7 34	7 53	8 19	9 0
11	5 21	5 37	5 50	6 1	6 11	6 21	6 32	6 44	6 59	7 8	7 18	7 32	7 50	8 15	8 55
12	5 22	5 38	5 50	6 1	6 11	6 21	6 31	6 43	6 57	7 6	7 17	7 30	7 47	8 12	8 50
13	5 24	5 39	5 51	6 1	6 11	6 21	6 31	6 42	6 56	7 5	7 15	7 28	7 45	8 8	8 45
14	5 25	5 39	5 51	6 1	6 11	6 20	6 30	6 41	6 55	7 3	7 13	7 26	7 42	8 5	8 40
15	5 26	5 40	5 52	6 2	6 11	6 20	6 30	6 41	6 54	7 2	7 12	7 24	7 39	8 1	8 36
16	5 27	5 41	5 52	6 2	6 11	6 20	6 29	6 40	6 52	7 0	7 10	7 21	7 37	7 58	8 31
17	5 28	5 42	5 53	6 2	6 11	6 19	6 28	6 39	6 51	6 59	7 8	7 19	7 34	7 54	8 26
18	5 29	5 43	5 53	6 2	6 11	6 19	6 28	6 38	6 50	6 57	7 6	7 17	7 31	7 51	8 21
19	5 31	5 43	5 54	6 2	6 11	6 19	6 27	6 37	6 48	6 56	7 4	7 15	7 28	7 47	8 16
20	5 32	5 44	5 54	6 3	6 11	6 18	6 27	6 36	6 47	6 54	7 2	7 12	7 26	7 44	8 12
21	5 33	5 45	5 54	6 3	6 10	6 18	6 26	6 35	6 46	6 52	7 0	7 10	7 23	7 40	8 7
22	5 34	5 46	5 55	6 3	6 10	6 18	6 25	6 34	6 44	6 51	6 58	7 8	7 20	7 37	8 2
23	5 35	5 46	5 55	6 3	6 10	6 17	6 25	6 33	6 43	6 49	6 56	7 5	7 17	7 33	7 57
24	5 36	5 47	5 56	6 3	6 10	6 17	6 24	6 32	6 42	6 47	6 54	7 3	7 14	7 30	7 53
25	5 38	5 48	5 56	6 3	6 10	6 16	6 23	6 31	6 40	6 46	6 52	7 1	7 11	7 26	7 48
26	5 39	5 49	5 57	6 3	6 10	6 16	6 23	6 30	6 39	6 44	6 50	6 58	7 9	7 23	7 43
27	5 40	5 49	5 57	6 3	6 10	6 16	6 22	6 29	6 37	6 42	6 48	6 56	7 6	7 19	7 39
28	5 41	5 50	5 57	6 4	6 9	6 15	6 21	6 28	6 36	6 41	6 46	6 54	7 3	7 15	7 34
März 1	5 42	5 51	5 58	6 4	6 9	6 15	6 20	6 27	6 34	6 39	6 44	6 51	7 0	7 12	7 29
2	5 43	5 51	5 58	6 4	6 9	6 14	6 19	6 26	6 33	6 37	6 42	6 49	6 57	7 8	7 24
3	5 44	5 52	5 58	6 4	6 9	6 14	6 19	6 24	6 31	6 35	6 40	6 46	6 54	7 4	7 20
4	5 45	5 53	5 59	6 4	6 9	6 13	6 18	6 23	6 30	6 34	6 38	6 44	6 51	7 1	7 15
5	5 46	5 53	5 59	6 4	6 8	6 13	6 17	6 22	6 28	6 32	6 36	6 41	6 48	6 57	7 11
6	5 48	5 54	6 0	6 4	6 8	6 12	6 16	6 21	6 27	6 30	6 34	6 39	6 45	6 54	7 6
7	5 49	5 55	6 0	6 4	6 8	6 12	6 16	6 20	6 25	6 28	6 32	6 36	6 42	6 50	7 1
8	5 50	5 56	6 0	6 4	6 8	6 11	6 15	6 19	6 24	6 26	6 30	6 34	6 39	6 46	6 57
9	5 51	5 56	6 0	6 4	6 8	6 11	6 14	6 18	6 22	6 25	6 28	6 31	6 36	6 43	6 52
10	5 52	5 57	6 1	6 4	6 7	6 10	6 13	6 16	6 20	6 23	6 26	6 29	6 33	6 39	6 47
11	5 53	5 58	6 1	6 4	6 7	6 10	6 12	6 15	6 19	6 21	6 23	6 26	6 30	6 35	6 43
12	5 54	5 58	6 1	6 4	6 7	6 9	6 11	6 14	6 17	6 19	6 21	6 24	6 27	6 32	6 38
13	5 55	5 59	6 2	6 4	6 6	6 8	6 11	6 13	6 16	6 16	6 19	6 21	6 24	6 28	6 34
14	5 56	5 59	6 2	6 4	6 6	6 8	6 10	6 12	6 14	6 14	6 17	6 19	6 21	6 24	6 29
15	5 57	6 0	6 2	6 4	6 6	6 7	6 9	6 11	6 12	6 13	6 15	6 16	6 18	6 21	6 24
16	5 58	6 1	6 3	6 4	6 6	6 7	6 8	6 9	6 11	6 12	6 13	6 14	6 15	6 17	6 20
17	5 59	6 1	6 3	6 4	6 5	6 6	6 7	6 8	6 9	6 10	6 10	6 11	6 12	6 13	6 15
18	6 0	6 2	6 3	6 4	6 5	6 6	6 6	6 7	6 8	6 8	6 8	6 9	6 9	6 10	6 11
19	6 1	6 3	6 3	6 4	6 5	6 5	6 5	6 6	6 6	6 6	6 6	6 6	6 6	6 6	6 6
20	6 2	6 3	6 4	6 4	6 4	6 5	6 5	6 5	6 4	6 4	6 4	6 4	6 3	6 2	6 1
21	6 3	6 4	6 4	6 4	6 4	6 4	6 4	6 3	6 3	6 2	6 2	6 1	6 0	5 59	5 57
22	6 4	6 5	6 4	6 4	6 4	6 3	6 3	6 2	6 1	6 0	6 0	5 59	5 57	5 55	5 52
23	6 5	6 5	6 5	6 4	6 4	6 3	6 2	6 1	6 0	5 59	5 57	5 56	5 54	5 51	5 47

Mittlere Ortszeit Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Febr. 10	19 8	18 52	18 39	18 28	18 18	18 8	17 57	17 45	17 30	17 20	17 9	16 55	16 37	16 11	15 30
11	19 7	18 51	18 39	18 28	18 18	18 8	17 57	17 45	17 31	17 22	17 11	16 57	16 40	16 15	15 35
12	19 6	18 51	18 38	18 28	18 18	18 8	17 58	17 46	17 32	17 23	17 13	17 0	16 42	16 18	15 40
13	19 4	18 50	18 38	18 27	18 18	18 8	17 58	17 47	17 33	17 25	17 14	17 2	16 45	16 22	15 45
14	19 3	18 49	18 37	18 27	18 18	18 8	17 59	17 48	17 34	17 26	17 16	17 4	16 48	16 25	15 50
15	19 2	18 48	18 37	18 27	18 18	18 9	17 59	17 48	17 35	17 27	17 18	17 6	16 50	16 28	15 54
16	19 1	18 47	18 36	18 26	18 18	18 9	18 0	17 49	17 37	17 29	17 20	17 8	16 53	16 32	15 59
17	18 59	18 46	18 35	18 26	18 18	18 9	18 0	17 50	17 38	17 30	17 21	17 10	16 56	16 35	16 4
18	18 58	18 45	18 35	18 26	18 18	18 9	18 1	17 51	17 39	17 32	17 23	17 12	16 58	16 39	16 9
19	18 57	18 44	18 34	18 25	18 17	18 9	18 1	17 51	17 40	17 33	17 25	17 14	17 1	16 42	16 13
20	18 55	18 43	18 33	18 25	18 17	18 9	18 1	17 52	17 41	17 35	17 26	17 16	17 3	16 45	16 18
21	18 54	18 42	18 33	18 25	18 17	18 10	18 2	17 53	17 42	17 36	17 28	17 18	17 6	16 49	16 23
22	18 52	18 41	18 32	18 24	18 17	18 10	18 2	17 54	17 44	17 37	17 30	17 20	17 8	16 52	16 27
23	18 51	18 40	18 32	18 24	18 17	18 10	18 3	17 54	17 45	17 39	17 32	17 23	17 11	16 55	16 32
24	18 50	18 39	18 31	18 23	18 17	18 10	18 3	17 55	17 46	17 40	17 33	17 25	17 14	16 59	16 36
25	18 48	18 38	18 30	18 23	18 17	18 10	18 4	17 56	17 47	17 41	17 35	17 27	17 16	17 2	16 40
26	18 47	18 37	18 29	18 23	18 16	18 10	18 4	17 57	17 48	17 43	17 37	17 29	17 19	17 5	16 45
27	18 45	18 36	18 29	18 22	18 16	18 10	18 4	17 57	17 49	17 44	17 38	17 31	17 21	17 8	16 49
28	18 44	18 35	18 28	18 22	18 16	18 10	18 5	17 58	17 50	17 46	17 40	17 33	17 24	17 12	16 53
März 1	18 42	18 34	18 27	18 21	18 16	18 11	18 5	17 59	17 52	17 47	17 42	17 35	17 26	17 15	16 58
2	18 41	18 33	18 26	18 21	18 16	18 11	18 5	17 59	17 53	17 48	17 43	17 37	17 29	17 18	17 2
3	18 39	18 32	18 25	18 20	18 15	18 11	18 6	18 0	17 54	17 50	17 45	17 39	17 31	17 21	17 6
4	18 38	18 30	18 25	18 20	18 15	18 11	18 6	18 1	17 55	17 51	17 47	17 41	17 34	17 24	17 10
5	18 36	18 29	18 24	18 19	18 15	18 11	18 7	18 2	17 56	17 52	17 48	17 43	17 37	17 28	17 15
6	18 35	18 28	18 23	18 19	18 15	18 11	18 7	18 2	17 57	17 54	17 50	17 45	17 39	17 31	17 19
7	18 33	18 27	18 22	18 18	18 14	18 11	18 7	18 3	17 58	17 55	17 51	17 47	17 42	17 34	17 23
8	18 31	18 26	18 21	18 18	18 14	18 11	18 7	18 4	17 59	17 56	17 53	17 49	17 44	17 37	17 27
9	18 30	18 25	18 21	18 17	18 14	18 11	18 8	18 4	18 0	17 58	17 55	17 51	17 47	17 40	17 31
10	18 28	18 24	18 20	18 17	18 14	18 11	18 8	18 5	18 1	17 59	17 56	17 53	17 49	17 43	17 35
11	18 27	18 22	18 19	18 16	18 13	18 11	18 8	18 5	18 2	18 0	17 58	17 55	17 52	17 47	17 40
12	18 25	18 21	18 18	18 16	18 13	18 11	18 9	18 6	18 3	18 2	18 0	17 57	17 54	17 50	17 44
13	18 24	18 20	18 17	18 15	18 13	18 11	18 9	18 7	18 4	18 3	18 1	17 59	17 56	17 53	17 48
14	18 22	18 19	18 16	18 15	18 13	18 11	18 9	18 7	18 5	18 4	18 3	18 1	17 59	17 56	17 52
15	18 20	18 18	18 16	18 14	18 12	18 11	18 10	18 8	18 6	18 6	18 4	18 3	18 1	17 59	17 56
16	18 19	18 16	18 15	18 14	18 12	18 11	18 10	18 8	18 7	18 7	18 6	18 5	18 4	18 2	18 0
17	18 17	18 15	18 14	18 13	18 12	18 11	18 10	18 9	18 8	18 8	18 8	18 7	18 6	18 5	18 4
18	18 16	18 14	18 13	18 12	18 11	18 11	18 10	18 10	18 10	18 9	18 9	18 9	18 9	18 8	18 8
19	18 14	18 13	18 12	18 12	18 11	18 11	18 11	18 10	18 11	18 11	18 11	18 11	18 11	18 12	18 12
20	18 12	18 12	18 11	18 11	18 11	18 11	18 11	18 11	18 12	18 12	18 12	18 13	18 14	18 15	18 16
21	18 11	18 10	18 10	18 11	18 11	18 11	18 11	18 12	18 13	18 13	18 14	18 15	18 16	18 18	18 20
22	18 9	18 9	18 9	18 10	18 10	18 11	18 12	18 12	18 14	18 15	18 16	18 17	18 18	18 21	18 24
23	18 7	18 8	18 9	18 9	18 10	18 11	18 12	18 13	18 15	18 16	18 17	18 19	18 21	18 24	18 29

Sonnenaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
März 23	6 5	6 5	6 5	6 4	6 4	6 3	6 2	6 1	6 0	5 59	5 57	5 56	5 54	5 51	5 47
24	6 7	6 6	6 5	6 4	6 3	6 2	6 1	6 0	5 58	5 57	5 55	5 53	5 51	5 48	5 43
25	6 8	6 6	6 5	6 4	6 3	6 2	6 0	5 59	5 56	5 55	5 53	5 51	5 48	5 44	5 38
26	6 9	6 7	6 5	6 4	6 3	6 1	5 59	5 57	5 55	5 53	5 51	5 48	5 45	5 40	5 33
27	6 10	6 8	6 6	6 4	6 2	6 0	5 58	5 56	5 53	5 51	5 49	5 46	5 42	5 37	5 29
28	6 11	6 8	6 6	6 4	6 2	6 0	5 58	5 55	5 51	5 49	5 47	5 43	5 39	5 33	5 24
29	6 12	6 9	6 6	6 4	6 2	5 59	5 57	5 54	5 50	5 47	5 44	5 41	5 36	5 29	5 19
30	6 13	6 9	6 6	6 4	6 1	5 59	5 56	5 53	5 48	5 46	5 42	5 38	5 33	5 25	5 15
31	6 14	6 10	6 7	6 4	6 1	5 58	5 55	5 51	5 47	5 44	5 40	5 36	5 30	5 22	5 10
April 1	6 15	6 11	6 7	6 4	6 1	5 58	5 54	5 50	5 45	5 42	5 38	5 33	5 27	5 18	5 5
2	6 16	6 11	6 7	6 4	6 1	5 57	5 53	5 49	5 43	5 40	5 36	5 31	5 24	5 14	5 1
3	6 17	6 12	6 8	6 4	6 0	5 56	5 52	5 48	5 42	5 38	5 34	5 28	5 21	5 11	4 56
4	6 18	6 12	6 8	6 4	6 0	5 56	5 52	5 47	5 40	5 36	5 31	5 25	5 18	5 7	4 51
5	6 19	6 13	6 8	6 4	6 0	5 55	5 51	5 45	5 39	5 34	5 29	5 23	5 15	5 3	4 46
6	6 20	6 13	6 8	6 4	5 59	5 55	5 50	5 44	5 37	5 33	5 27	5 20	5 12	5 0	4 42
7	6 21	6 14	6 9	6 4	5 59	5 54	5 49	5 43	5 35	5 31	5 25	5 18	5 9	4 56	4 37
8	6 22	6 15	6 9	6 4	5 59	5 54	5 48	5 42	5 34	5 29	5 23	5 15	5 6	4 52	4 32
9	6 23	6 15	6 9	6 4	5 58	5 53	5 47	5 41	5 32	5 27	5 21	5 13	5 3	4 49	4 27
10	6 24	6 16	6 9	6 4	5 58	5 53	5 46	5 40	5 31	5 25	5 19	5 10	5 0	4 45	4 22
11	6 25	6 16	6 10	6 4	5 58	5 52	5 46	5 38	5 29	5 23	5 16	5 8	4 57	4 41	4 18
12	6 26	6 17	6 10	6 4	5 58	5 51	5 45	5 37	5 28	5 22	5 14	5 5	4 54	4 37	4 13
13	6 27	6 18	6 10	6 4	5 57	5 51	5 44	5 36	5 26	5 20	5 12	5 3	4 51	4 34	4 8
14	6 28	6 18	6 10	6 4	5 57	5 50	5 43	5 35	5 24	5 18	5 10	5 1	4 48	4 30	4 3
15	6 29	6 19	6 11	6 4	5 57	5 50	5 42	5 34	5 23	5 16	5 8	4 58	4 45	4 26	3 58
16	6 30	6 20	6 11	6 4	5 57	5 49	5 42	5 33	5 21	5 14	5 6	4 56	4 42	4 23	3 53
17	6 31	6 20	6 11	6 4	5 56	5 49	5 41	5 31	5 20	5 13	5 4	4 53	4 39	4 19	3 48
18	6 32	6 21	6 12	6 4	5 56	5 48	5 40	5 30	5 19	5 11	5 2	4 51	4 36	4 15	3 43
19	6 33	6 21	6 12	6 4	5 56	5 48	5 39	5 29	5 17	5 9	5 0	4 48	4 33	4 12	3 38
20	6 34	6 22	6 12	6 4	5 56	5 47	5 39	5 28	5 16	5 8	4 58	4 46	4 30	4 8	3 33
21	6 35	6 23	6 13	6 4	5 55	5 47	5 38	5 27	5 14	5 6	4 56	4 44	4 27	4 4	3 28
22	6 36	6 23	6 13	6 4	5 55	5 47	5 37	5 26	5 13	5 4	4 54	4 41	4 24	4 1	3 22
23	6 37	6 24	6 13	6 4	5 55	5 46	5 36	5 25	5 11	5 3	4 52	4 39	4 22	3 57	3 17
24	6 38	6 24	6 14	6 4	5 55	5 46	5 36	5 24	5 10	5 1	4 50	4 37	4 19	3 53	3 12
25	6 39	6 25	6 14	6 4	5 55	5 45	5 35	5 23	5 9	4 59	4 48	4 34	4 16	3 50	3 7
26	6 40	6 26	6 14	6 4	5 55	5 45	5 34	5 23	5 7	4 58	4 46	4 32	4 13	3 46	3 2
27	6 41	6 26	6 14	6 4	5 54	5 44	5 34	5 22	5 6	4 56	4 45	4 30	4 10	3 42	2 56
28	6 41	6 27	6 15	6 4	5 54	5 44	5 33	5 21	5 5	4 55	4 43	4 28	4 7	3 39	2 51
29	6 42	6 27	6 15	6 4	5 54	5 44	5 32	5 20	5 3	4 53	4 41	4 25	4 5	3 35	2 45
30	6 43	6 28	6 15	6 4	5 54	5 43	5 32	5 19	5 2	4 52	4 39	4 23	4 2	3 31	2 39
Mai 1	6 44	6 29	6 16	6 4	5 54	5 43	5 31	5 18	5 1	4 50	4 37	4 21	3 59	3 28	2 33
2	6 45	6 29	6 16	6 4	5 54	5 43	5 31	5 17	4 59	4 49	4 35	4 19	3 56	3 24	2 28
3	6 46	6 30	6 16	6 5	5 53	5 42	5 30	5 16	4 58	4 47	4 34	4 17	3 54	3 20	2 22

Sonnenuntergang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
März 23	18 7	18 8	18 9	18 9	18 10	18 11	18 12	18 13	18 15	18 16	18 17	18 19	18 21	18 24	18 29
24	18 6	18 7	18 8	18 9	18 10	18 11	18 12	18 13	18 16	18 17	18 19	18 21	18 23	18 27	18 33
25	18 4	18 6	18 7	18 8	18 9	18 11	18 12	18 14	18 17	18 18	18 20	18 23	18 26	18 30	18 37
26	18 3	18 4	18 6	18 8	18 9	18 11	18 13	18 15	18 18	18 20	18 22	18 25	18 28	18 33	18 41
27	18 1	18 3	18 5	18 7	18 9	18 11	18 13	18 15	18 19	18 21	18 23	18 27	18 31	18 36	18 45
28	17 59	18 2	18 4	18 7	18 8	18 11	18 13	18 16	18 20	18 22	18 25	18 28	18 33	18 39	18 49
29	17 58	18 1	18 3	18 6	18 8	18 11	18 13	18 17	18 21	18 23	18 26	18 30	18 35	18 43	18 53
30	17 56	18 0	18 3	18 5	18 8	18 11	18 14	18 17	18 22	18 25	18 28	18 32	18 38	18 46	18 57
31	17 54	17 58	18 2	18 5	18 8	18 11	18 14	18 18	18 23	18 26	18 30	18 34	18 40	18 49	19 1
April 1	17 53	17 57	18 1	18 4	18 7	18 11	18 14	18 18	18 24	18 27	18 31	18 36	18 43	18 52	19 5
2	17 51	17 56	18 0	18 4	18 7	18 11	18 14	18 19	18 25	18 28	18 33	18 38	18 45	18 55	19 9
3	17 50	17 55	17 59	18 3	18 7	18 11	18 15	18 19	18 26	18 30	18 34	18 40	18 48	18 58	19 14
4	17 48	17 54	17 58	18 3	18 6	18 10	18 15	18 20	18 27	18 31	18 36	18 42	18 50	19 1	19 18
5	17 46	17 52	17 57	18 2	18 6	18 10	18 15	18 21	18 28	18 32	18 37	18 44	18 53	19 4	19 22
6	17 45	17 51	17 57	18 1	18 6	18 10	18 16	18 21	18 29	18 34	18 39	18 46	18 55	19 8	19 26
7	17 43	17 50	17 56	18 1	18 6	18 10	18 16	18 22	18 30	18 35	18 41	18 48	18 58	19 11	19 30
8	17 42	17 49	17 55	18 0	18 5	18 10	18 16	18 22	18 31	18 36	18 42	18 50	19 0	19 14	19 35
9	17 40	17 48	17 54	18 0	18 5	18 10	18 16	18 23	18 32	18 37	18 44	18 52	19 2	19 17	19 39
10	17 39	17 47	17 53	17 59	18 5	18 10	18 17	18 24	18 33	18 39	18 45	18 54	19 5	19 20	19 43
11	17 37	17 46	17 52	17 59	18 4	18 10	18 17	18 24	18 34	18 40	18 47	18 56	19 7	19 23	19 48
12	17 36	17 44	17 52	17 58	18 4	18 10	18 17	18 25	18 35	18 41	18 48	18 58	19 10	19 27	19 52
13	17 34	17 43	17 51	17 58	18 4	18 11	18 18	18 26	18 36	18 42	18 50	19 0	19 12	19 30	19 56
14	17 33	17 42	17 50	17 57	18 4	18 11	18 18	18 26	18 37	18 44	18 52	19 2	19 15	19 33	20 1
15	17 31	17 41	17 49	17 57	18 3	18 11	18 18	18 27	18 38	18 45	18 53	19 4	19 17	19 36	20 5
16	17 30	17 40	17 48	17 56	18 3	18 11	18 18	18 28	18 39	18 46	18 55	19 5	19 20	19 39	20 10
17	17 28	17 39	17 48	17 56	18 3	18 11	18 19	18 28	18 40	18 47	18 56	19 7	19 22	19 43	20 15
18	17 27	17 38	17 47	17 55	18 3	18 11	18 19	18 29	18 41	18 49	18 58	19 9	19 25	19 46	20 19
19	17 25	17 37	17 46	17 55	18 2	18 11	18 19	18 29	18 42	18 50	18 59	19 11	19 27	19 49	20 24
20	17 24	17 36	17 45	17 54	18 2	18 11	18 20	18 30	18 43	18 51	19 1	19 13	19 30	19 52	20 29
21	17 23	17 35	17 45	17 54	18 2	18 11	18 20	18 31	18 44	18 52	19 3	19 15	19 32	19 56	20 33
22	17 21	17 34	17 44	17 53	18 2	18 11	18 20	18 31	18 45	18 54	19 4	19 17	19 35	19 59	20 38
23	17 20	17 33	17 43	17 53	18 2	18 11	18 21	18 32	18 46	18 55	19 6	19 19	19 37	20 2	20 43
24	17 18	17 32	17 43	17 52	18 2	18 11	18 21	18 32	18 47	18 56	19 7	19 21	19 39	20 6	20 48
25	17 17	17 31	17 42	17 52	18 1	18 11	18 21	18 33	18 48	18 57	19 9	19 23	19 42	20 9	20 53
26	17 16	17 30	17 41	17 52	18 1	18 11	18 22	18 34	18 49	18 59	19 10	19 25	19 44	20 12	20 58
27	17 14	17 29	17 41	17 51	18 1	18 11	18 22	18 34	18 50	19 0	19 12	19 27	19 47	20 16	21 3
28	17 13	17 28	17 40	17 51	18 1	18 11	18 22	18 35	18 51	19 1	19 13	19 29	19 49	20 19	21 9
29	17 12	17 27	17 39	17 51	18 1	18 11	18 23	18 35	18 52	19 2	19 15	19 31	19 52	20 22	21 14
30	17 11	17 26	17 39	17 50	18 1	18 11	18 23	18 36	18 53	19 4	19 17	19 33	19 54	20 26	21 20
Mai 1	17 9	17 25	17 38	17 50	18 1	18 11	18 23	18 37	18 54	19 5	19 18	19 35	19 57	20 29	21 25
2	17 8	17 24	17 38	17 49	18 0	18 12	18 24	18 37	18 55	19 6	19 20	19 36	19 59	20 33	21 31
3	17 7	17 24	17 37	17 49	18 0	18 12	18 24	18 38	18 56	19 7	19 21	19 38	20 2	20 36	21 37

Sonnenaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Mai 3	6 46	6 30	6 16	6 5	5 53	5 42	5 30	5 16	4 58	4 47	4 34	4 17	3 54	3 20	2 22
4	6 47	6 31	6 17	6 5	5 53	5 42	5 29	5 15	4 57	4 46	4 32	4 15	3 51	3 17	2 15
5	6 48	6 31	6 17	6 5	5 53	5 41	5 29	5 14	4 56	4 44	4 30	4 12	3 48	3 13	2 9
6	6 49	6 32	6 18	6 5	5 53	5 41	5 28	5 13	4 55	4 43	4 29	4 10	3 46	3 9	2 3
7	6 50	6 32	6 18	6 5	5 53	5 41	5 28	5 13	4 53	4 42	4 27	4 8	3 43	3 6	1 56
8	6 51	6 33	6 18	6 5	5 53	5 41	5 27	5 12	4 52	4 40	4 25	4 6	3 41	3 2	1 49
9	6 52	6 34	6 19	6 5	5 53	5 40	5 27	5 11	4 51	4 39	4 24	4 4	3 38	2 58	1 42
10	6 53	6 34	6 19	6 6	5 53	5 40	5 26	5 10	4 50	4 38	4 22	4 2	3 35	2 55	1 35
11	6 54	6 35	6 19	6 6	5 53	5 40	5 26	5 10	4 49	4 36	4 21	4 0	3 33	2 51	1 27
12	6 55	6 36	6 20	6 6	5 53	5 40	5 25	5 9	4 48	4 35	4 19	3 59	3 30	2 48	1 18
13	6 56	6 36	6 20	6 6	5 53	5 39	5 25	5 8	4 47	4 34	4 18	3 57	3 28	2 44	1 9
14	6 57	6 37	6 21	6 6	5 53	5 39	5 24	5 8	4 46	4 33	4 16	3 55	3 26	2 40	0 59
15	6 58	6 37	6 21	6 6	5 53	5 39	5 24	5 7	4 45	4 31	4 15	3 53	3 23	2 37	0 46
16	6 59	6 38	6 21	6 7	5 53	5 39	5 24	5 6	4 44	4 30	4 13	3 51	3 21	2 33	0 30
17	7 0	6 39	6 22	6 7	5 53	5 39	5 23	5 6	4 43	4 29	4 12	3 50	3 19	2 30	
18	7 1	6 39	6 22	6 7	5 53	5 38	5 23	5 5	4 42	4 28	4 11	3 48	3 16	2 26	
19	7 1	6 40	6 23	6 7	5 53	5 38	5 23	5 5	4 42	4 27	4 9	3 46	3 14	2 23	
20	7 2	6 41	6 23	6 8	5 53	5 38	5 22	5 4	4 41	4 26	4 8	3 45	3 12	2 19	
21	7 3	6 41	6 23	6 8	5 53	5 38	5 22	5 3	4 40	4 25	4 7	3 43	3 10	2 16	
22	7 4	6 42	6 24	6 8	5 53	5 38	5 22	5 3	4 39	4 24	4 6	3 42	3 8	2 13	
23	7 5	6 42	6 24	6 8	5 53	5 38	5 22	5 3	4 39	4 23	4 5	3 40	3 6	2 9	
24	7 6	6 43	6 25	6 9	5 53	5 38	5 21	5 2	4 38	4 22	4 3	3 39	3 4	2 6	
25	7 7	6 44	6 25	6 9	5 53	5 38	5 21	5 2	4 37	4 22	4 2	3 37	3 2	2 2	
26	7 7	6 44	6 25	6 9	5 53	5 38	5 21	5 1	4 37	4 21	4 1	3 36	3 0	1 59	
27	7 8	6 45	6 26	6 9	5 53	5 38	5 21	5 1	4 36	4 20	4 0	3 35	2 58	1 56	
28	7 9	6 45	6 26	6 9	5 54	5 38	5 20	5 0	4 35	4 19	3 59	3 33	2 56	1 52	
29	7 10	6 46	6 26	6 10	5 54	5 38	5 20	5 0	4 35	4 19	3 59	3 32	2 55	1 49	
30	7 11	6 46	6 27	6 10	5 54	5 38	5 20	5 0	4 34	4 18	3 58	3 31	2 53	1 46	
31	7 11	6 47	6 27	6 10	5 54	5 38	5 20	5 0	4 34	4 17	3 57	3 30	2 51	1 43	
Juni 1	7 12	6 47	6 28	6 10	5 54	5 38	5 20	4 59	4 33	4 17	3 56	3 29	2 50	1 39	
2	7 13	6 48	6 28	6 11	5 54	5 38	5 20	4 59	4 33	4 16	3 55	3 28	2 48	1 36	
3	7 13	6 48	6 28	6 11	5 54	5 38	5 20	4 59	4 33	4 16	3 55	3 27	2 47	1 33	
4	7 14	6 49	6 29	6 11	5 54	5 38	5 20	4 59	4 32	4 15	3 54	3 26	2 46	1 30	
5	7 15	6 49	6 29	6 11	5 55	5 38	5 20	4 58	4 32	4 15	3 53	3 25	2 44	1 28	
6	7 15	6 50	6 29	6 12	5 55	5 38	5 20	4 58	4 32	4 14	3 53	3 24	2 43	1 25	
7	7 16	6 50	6 30	6 12	5 55	5 38	5 20	4 58	4 31	4 14	3 52	3 24	2 42	1 22	
8	7 16	6 51	6 30	6 12	5 55	5 38	5 20	4 58	4 31	4 14	3 52	3 23	2 41	1 19	
9	7 17	6 51	6 31	6 12	5 55	5 38	5 20	4 58	4 31	4 13	3 52	3 23	2 40	1 17	
10	7 18	6 52	6 31	6 13	5 56	5 38	5 20	4 58	4 31	4 13	3 51	3 22	2 39	1 14	
11	7 18	6 52	6 31	6 13	5 56	5 38	5 20	4 58	4 31	4 13	3 51	3 22	2 38	1 12	
12	7 19	6 52	6 32	6 13	5 56	5 39	5 20	4 58	4 31	4 13	3 51	3 21	2 38	1 10	
13	7 19	6 53	6 32	6 14	5 56	5 39	5 20	4 58	4 30	4 13	3 50	3 21	2 37	1 8	

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Mai 3	17 7	17 24	17 37	17 49	18 0	18 12	18 24	18 38	18 56	19 7	19 21	19 38	20 2	20 36	21 37
4	17 6	17 23	17 37	17 49	18 0	18 12	18 24	18 39	18 57	19 9	19 23	19 40	20 4	20 40	21 43
5	17 5	17 22	17 36	17 48	18 0	18 12	18 25	18 39	18 58	19 10	19 24	19 42	20 7	20 43	21 49
6	17 4	17 21	17 35	17 48	18 0	18 12	18 25	18 40	18 59	19 11	19 26	19 44	20 9	20 47	21 56
7	17 2	17 20	17 35	17 48	18 0	18 12	18 26	18 41	19 0	19 12	19 27	19 46	20 12	20 50	22 3
8	17 1	17 20	17 34	17 47	18 0	18 12	18 26	18 42	19 1	19 13	19 29	19 48	20 14	20 54	22 10
9	17 0	17 19	17 34	17 47	18 0	18 13	18 26	18 42	19 2	19 15	19 30	19 50	20 16	20 57	22 17
10	16 59	17 18	17 33	17 47	18 0	18 13	18 27	18 43	19 3	19 16	19 32	19 52	20 19	21 1	22 25
11	16 58	17 17	17 33	17 47	18 0	18 13	18 27	18 44	19 4	19 17	19 33	19 53	20 21	21 4	22 34
12	16 57	17 17	17 33	17 46	18 0	18 13	18 28	18 44	19 5	19 18	19 34	19 55	20 24	21 8	22 43
13	16 56	17 16	17 32	17 46	18 0	18 13	18 28	18 45	19 6	19 19	19 36	19 57	20 26	21 11	22 53
14	16 55	17 15	17 32	17 46	18 0	18 14	18 28	18 46	19 7	19 21	19 37	19 59	20 28	21 15	23 6
15	16 54	17 15	17 31	17 46	18 0	18 14	18 29	18 46	19 8	19 22	19 39	20 1	20 31	21 18	23 22
16	16 53	17 14	17 31	17 46	18 0	18 14	18 29	18 47	19 9	19 23	19 40	20 2	20 33	21 22	
17	16 53	17 14	17 31	17 46	18 0	18 14	18 29	18 47	19 10	19 24	19 42	20 4	20 36	21 26	
18	16 52	17 13	17 30	17 45	18 0	18 14	18 30	18 48	19 11	19 25	19 43	20 6	20 38	21 29	
19	16 51	17 13	17 30	17 45	18 0	18 15	18 30	18 49	19 12	19 26	19 44	20 8	20 40	21 33	
20	16 50	17 12	17 30	17 45	18 0	18 15	18 31	18 49	19 13	19 27	19 46	20 9	20 42	21 36	
21	16 49	17 12	17 30	17 45	18 0	18 15	18 31	18 50	19 14	19 29	19 47	20 11	20 45	21 40	
22	16 49	17 11	17 29	17 45	18 0	18 15	18 32	18 51	19 14	19 30	19 48	20 13	20 47	21 44	
23	16 48	17 11	17 29	17 45	18 0	18 16	18 32	18 51	19 15	19 31	19 49	20 14	20 49	21 47	
24	16 47	17 10	17 29	17 45	18 0	18 16	18 32	18 52	19 16	19 32	19 51	20 16	20 51	21 51	
25	16 47	17 10	17 29	17 45	18 0	18 16	18 33	18 52	19 17	19 33	19 52	20 17	20 53	21 54	
26	16 46	17 10	17 28	17 45	18 1	18 16	18 33	18 53	19 18	19 34	19 53	20 19	20 55	21 58	
27	16 46	17 9	17 28	17 45	18 1	18 16	18 34	18 54	19 19	19 35	19 54	20 20	20 57	22 1	
28	16 45	17 9	17 28	17 45	18 1	18 17	18 34	18 54	19 19	19 36	19 56	20 22	20 59	22 5	
29	16 44	17 9	17 28	17 45	18 1	18 17	18 34	18 55	19 20	19 36	19 57	20 23	21 1	22 8	
30	16 44	17 8	17 28	17 45	18 1	18 17	18 35	18 55	19 21	19 37	19 58	20 25	21 3	22 12	
31	16 43	17 8	17 28	17 45	18 1	18 18	18 35	18 56	19 22	19 38	19 59	20 26	21 5	22 15	
Juni 1	16 43	17 8	17 28	17 45	18 1	18 18	18 36	18 56	19 22	19 39	20 0	20 27	21 7	22 18	
2	16 43	17 8	17 28	17 45	18 1	18 18	18 36	18 57	19 23	19 40	20 1	20 29	21 8	22 22	
3	16 42	17 7	17 28	17 45	18 2	18 18	18 36	18 58	19 24	19 41	20 2	20 30	21 10	22 25	
4	16 42	17 7	17 27	17 45	18 2	18 19	18 37	18 58	19 24	19 41	20 3	20 31	21 12	22 28	
5	16 42	17 7	17 27	17 45	18 2	18 19	18 37	18 59	19 25	19 42	20 4	20 32	21 13	22 32	
6	16 41	17 7	17 27	17 45	18 2	18 19	18 37	18 59	19 26	19 43	20 5	20 33	21 15	22 35	
7	16 41	17 7	17 27	17 45	18 2	18 19	18 38	18 59	19 26	19 44	20 5	20 34	21 16	22 38	
8	16 41	17 7	17 27	17 45	18 3	18 20	18 38	19 0	19 27	19 44	20 6	20 35	21 18	22 41	
9	16 41	17 7	17 27	17 46	18 3	18 20	18 39	19 0	19 27	19 45	20 7	20 36	21 19	22 43	
10	16 41	17 7	17 28	17 46	18 3	18 20	18 39	19 1	19 28	19 46	20 8	20 37	21 20	22 46	
11	16 41	17 7	17 28	17 46	18 3	18 20	18 39	19 1	19 28	19 46	20 8	20 38	21 21	22 49	
12	16 41	17 7	17 28	17 46	18 3	18 21	18 39	19 1	19 29	19 47	20 9	20 39	21 22	22 51	
13	16 41	17 7	17 28	17 46	18 4	18 21	18 40	19 2	19 29	19 47	20 10	20 39	21 23	22 53	

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Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
Juni 13	7 19	6 53	6 32	6 14	5 56	5 39	5 20	4 58	4 30	4 13	3 50	3 21	2 37	1 8	
14	7 19	6 53	6 32	6 14	5 56	5 39	5 20	4 58	4 30	4 13	3 50	3 21	2 37	1 6	
15	7 20	6 53	6 32	6 14	5 57	5 39	5 20	4 58	4 30	4 12	3 50	3 20	2 36	1 5	
16	7 20	6 54	6 33	6 14	5 57	5 39	5 20	4 58	4 30	4 12	3 50	3 20	2 36	1 3	
17	7 21	6 54	6 33	6 15	5 57	5 39	5 20	4 58	4 30	4 12	3 50	3 20	2 36	1 2	
18	7 21	6 54	6 33	6 15	5 57	5 40	5 21	4 58	4 31	4 13	3 50	3 20	2 35	1 1	
19	7 21	6 55	6 34	6 15	5 57	5 40	5 21	4 58	4 31	4 13	3 50	3 20	2 35	1 1	
20	7 22	6 55	6 34	6 15	5 58	5 40	5 21	4 59	4 31	4 13	3 50	3 20	2 35	1 0	
21	7 22	6 55	6 34	6 15	5 58	5 40	5 21	4 59	4 31	4 13	3 50	3 20	2 35	1 0	
22	7 22	6 55	6 34	6 16	5 58	5 41	5 21	4 59	4 31	4 13	3 51	3 21	2 36	1 0	
23	7 22	6 56	6 34	6 16	5 58	5 41	5 22	4 59	4 32	4 13	3 51	3 21	2 36	1 1	
24	7 22	6 56	6 35	6 16	5 59	5 41	5 22	5 0	4 32	4 14	3 51	3 21	2 36	1 1	
25	7 23	6 56	6 35	6 16	5 59	5 41	5 22	5 0	4 32	4 14	3 52	3 22	2 37	1 2	
26	7 23	6 56	6 35	6 16	5 59	5 41	5 22	5 0	4 32	4 14	3 52	3 22	2 37	1 4	
27	7 23	6 56	6 35	6 17	5 59	5 42	5 23	5 1	4 33	4 15	3 52	3 22	2 38	1 5	
28	7 23	6 56	6 35	6 17	5 59	5 42	5 23	5 1	4 33	4 15	3 53	3 23	2 39	1 7	
29	7 23	6 56	6 35	6 17	6 0	5 42	5 23	5 1	4 34	4 16	3 53	3 24	2 40	1 9	
30	7 23	6 56	6 35	6 17	6 0	5 42	5 24	5 2	4 34	4 16	3 54	3 24	2 40	1 11	
Juli 1	7 23	6 56	6 36	6 17	6 0	5 43	5 24	5 2	4 35	4 17	3 55	3 25	2 41	1 13	
2	7 22	6 56	6 36	6 17	6 0	5 43	5 24	5 3	4 35	4 17	3 55	3 26	2 42	1 15	
3	7 22	6 56	6 36	6 18	6 0	5 43	5 25	5 3	4 36	4 18	3 56	3 27	2 44	1 18	
4	7 22	6 56	6 36	6 18	6 1	5 43	5 25	5 3	4 36	4 18	3 57	3 28	2 45	1 21	
5	7 22	6 56	6 36	6 18	6 1	5 44	5 25	5 4	4 37	4 19	3 57	3 28	2 46	1 24	
6	7 22	6 56	6 36	6 18	6 1	5 44	5 26	5 4	4 37	4 20	3 58	3 29	2 48	1 27	
7	7 22	6 56	6 36	6 18	6 1	5 44	5 26	5 5	4 38	4 20	3 59	3 30	2 49	1 30	
8	7 21	6 56	6 36	6 18	6 1	5 44	5 26	5 5	4 38	4 21	4 0	3 32	2 50	1 33	
9	7 21	6 56	6 36	6 18	6 1	5 45	5 27	5 6	4 39	4 22	4 1	3 33	2 52	1 36	
10	7 21	6 56	6 36	6 18	6 2	5 45	5 27	5 6	4 40	4 23	4 2	3 34	2 54	1 39	
11	7 20	6 55	6 36	6 18	6 2	5 45	5 27	5 7	4 40	4 24	4 3	3 35	2 55	1 42	
12	7 20	6 55	6 35	6 18	6 2	5 45	5 28	5 7	4 41	4 24	4 4	3 36	2 57	1 46	
13	7 19	6 55	6 35	6 18	6 2	5 46	5 28	5 8	4 42	4 25	4 5	3 38	2 59	1 49	
14	7 19	6 55	6 35	6 18	6 2	5 46	5 28	5 8	4 42	4 26	4 6	3 39	3 1	1 53	
15	7 18	6 54	6 35	6 18	6 2	5 46	5 29	5 9	4 43	4 27	4 7	3 40	3 3	1 56	
16	7 18	6 54	6 35	6 18	6 2	5 46	5 29	5 9	4 44	4 28	4 8	3 42	3 4	1 59	
17	7 17	6 54	6 35	6 18	6 2	5 47	5 30	5 10	4 45	4 29	4 9	3 43	3 6	2 3	
18	7 17	6 53	6 35	6 18	6 2	5 47	5 30	5 10	4 45	4 30	4 10	3 45	3 8	2 6	
19	7 16	6 53	6 34	6 18	6 3	5 47	5 30	5 11	4 46	4 31	4 11	3 46	3 10	2 10	
20	7 15	6 53	6 34	6 18	6 3	5 47	5 31	5 11	4 47	4 32	4 13	3 48	3 13	2 13	
21	7 15	6 52	6 34	6 18	6 3	5 47	5 31	5 12	4 48	4 33	4 14	3 49	3 15	2 17	
22	7 14	6 52	6 34	6 18	6 3	5 48	5 31	5 13	4 49	4 34	4 15	3 51	3 17	2 21	
23	7 13	6 51	6 33	6 18	6 3	5 48	5 32	5 13	4 50	4 35	4 16	3 52	3 19	2 24	
24	7 13	6 51	6 33	6 17	6 3	5 48	5 32	5 14	4 51	4 36	4 18	3 54	3 21	2 28	

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Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
Juni 13	16 41	17 7	17 28	17 46	18 4	18 21	18 40	19 2	19 29	19 47	20 10	20 39	21 23	22 53	
14	16 41	17 7	17 28	17 46	18 4	18 21	18 40	19 2	19 30	19 48	20 10	20 40	21 24	22 55	
15	16 41	17 7	17 28	17 47	18 4	18 21	18 40	19 2	19 30	19 48	20 11	20 40	21 25	22 57	
16	16 41	17 7	17 28	17 47	18 4	18 22	18 41	19 3	19 31	19 49	20 11	20 41	21 26	22 59	
17	16 41	17 7	17 28	17 47	18 4	18 22	18 41	19 3	19 31	19 49	20 12	20 42	21 26	23 0	
18	16 41	17 7	17 29	17 47	18 5	18 22	18 41	19 3	19 31	19 49	20 12	20 42	21 27	23 1	
19	16 41	17 8	17 29	17 47	18 5	18 22	18 41	19 4	19 32	19 50	20 12	20 42	21 27	23 2	
20	16 41	17 8	17 29	17 47	18 5	18 23	18 42	19 4	19 32	19 50	20 13	20 43	21 28	23 3	
21	16 41	17 8	17 29	17 48	18 5	18 23	18 42	19 4	19 32	19 50	20 13	20 43	21 28	23 3	
22	16 42	17 8	17 29	17 48	18 6	18 23	18 42	19 4	19 32	19 50	20 13	20 43	21 28	23 3	
23	16 42	17 8	17 30	17 48	18 6	18 23	18 42	19 5	19 32	19 51	20 13	20 43	21 28	23 3	
24	16 42	17 9	17 30	17 48	18 6	18 24	18 43	19 5	19 33	19 51	20 13	20 43	21 28	23 2	
25	16 42	17 9	17 30	17 49	18 6	18 24	18 43	19 5	19 33	19 51	20 13	20 43	21 28	23 2	
26	16 43	17 9	17 30	17 49	18 6	18 24	18 43	19 5	19 33	19 51	20 13	20 43	21 28	23 1	
27	16 43	17 10	17 31	17 49	18 7	18 24	18 43	19 5	19 33	19 51	20 13	20 43	21 27	22 59	
28	16 43	17 10	17 31	17 49	18 7	18 24	18 43	19 5	19 33	19 51	20 13	20 43	21 27	22 58	
29	16 44	17 10	17 31	17 50	18 7	18 24	18 43	19 5	19 33	19 51	20 13	20 43	21 26	22 56	
30	16 44	17 11	17 32	17 50	18 7	18 24	18 43	19 5	19 33	19 51	20 13	20 42	21 26	22 54	
Juli 1	16 45	17 11	17 32	17 50	18 7	18 25	18 43	19 5	19 33	19 50	20 13	20 42	21 25	22 52	
2	16 45	17 11	17 32	17 50	18 8	18 25	18 43	19 5	19 33	19 50	20 12	20 41	21 24	22 50	
3	16 46	17 12	17 33	17 51	18 8	18 25	18 44	19 5	19 32	19 50	20 12	20 41	21 24	22 48	
4	16 46	17 12	17 33	17 51	18 8	18 25	18 44	19 5	19 32	19 50	20 12	20 40	21 23	22 45	
5	16 47	17 13	17 33	17 51	18 8	18 25	18 44	19 5	19 32	19 49	20 11	20 40	21 22	22 43	
6	16 48	17 13	17 34	17 51	18 8	18 25	18 44	19 5	19 32	19 49	20 11	20 39	21 21	22 40	
7	16 48	17 13	17 34	17 52	18 8	18 25	18 44	19 5	19 31	19 49	20 10	20 38	21 20	22 37	
8	16 49	17 14	17 34	17 52	18 9	18 25	18 44	19 4	19 31	19 48	20 9	20 38	21 18	22 35	
9	16 49	17 14	17 35	17 52	18 9	18 25	18 43	19 4	19 31	19 48	20 9	20 37	21 17	22 32	
10	16 50	17 15	17 35	17 52	18 9	18 25	18 43	19 4	19 30	19 47	20 8	20 36	21 16	22 29	
11	16 51	17 15	17 35	17 53	18 9	18 25	18 43	19 4	19 30	19 47	20 7	20 35	21 14	22 26	
12	16 51	17 16	17 36	17 53	18 9	18 25	18 43	19 4	19 30	19 46	20 7	20 34	21 13	22 22	
13	16 52	17 16	17 36	17 53	18 9	18 25	18 43	19 3	19 29	19 46	20 6	20 33	21 11	22 19	
14	16 53	17 17	17 36	17 53	18 9	18 25	18 43	19 3	19 29	19 45	20 5	20 32	21 10	22 16	
15	16 53	17 17	17 37	17 53	18 9	18 25	18 43	19 3	19 28	19 44	20 4	20 30	21 8	22 13	
16	16 54	17 18	17 37	17 54	18 10	18 25	18 43	19 2	19 27	19 43	20 3	20 29	21 6	22 10	
17	16 55	17 18	17 37	17 54	18 10	18 25	18 42	19 2	19 27	19 43	20 2	20 28	21 4	22 6	
18	16 56	17 19	17 38	17 54	18 10	18 25	18 42	19 2	19 26	19 42	20 1	20 27	21 2	22 3	
19	16 57	17 20	17 38	17 54	18 10	18 25	18 42	19 1	19 25	19 41	20 0	20 25	21 0	22 0	
20	16 57	17 20	17 39	17 55	18 10	18 25	18 42	19 1	19 25	19 40	19 59	20 24	20 58	21 56	
21	16 58	17 21	17 39	17 55	18 10	18 25	18 41	19 0	19 24	19 39	19 58	20 22	20 56	21 53	
22	16 59	17 21	17 39	17 55	18 10	18 25	18 41	19 0	19 23	19 38	19 57	20 21	20 54	21 49	
23	17 0	17 22	17 40	17 55	18 10	18 25	18 41	18 59	19 23	19 37	19 56	20 19	20 52	21 46	
24	17 1	17 23	17 40	17 55	18 10	18 25	18 40	18 59	19 22	19 36	19 54	20 18	20 50	21 42	

Sonnenaufgang 1945

Mittlere Ortszeit | Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	
Juli 24	7 13	6 51	6 33	6 17	6 3	5 48	5 32	5 14	4 51	4 36	4 18	3 54	3 21	2 28	
25	7 12	6 50	6 33	6 17	6 3	5 48	5 33	5 14	4 51	4 37	4 19	3 56	3 23	2 31	
26	7 11	6 49	6 32	6 17	6 3	5 48	5 33	5 15	4 52	4 38	4 20	3 57	3 25	2 35	
27	7 10	6 49	6 32	6 17	6 3	5 49	5 33	5 16	4 53	4 39	4 22	3 59	3 28	2 38	h m
28	7 9	6 48	6 32	6 17	6 3	5 49	5 34	5 16	4 54	4 40	4 23	4 1	3 30	2 42	0 22
29	7 8	6 48	6 31	6 17	6 3	5 49	5 34	5 17	4 55	4 41	4 24	4 2	3 32	2 45	0 46
30	7 7	6 47	6 31	6 16	6 3	5 49	5 34	5 17	4 56	4 42	4 26	4 4	3 35	2 49	1 1
31	7 6	6 46	6 30	6 16	6 3	5 49	5 35	5 18	4 57	4 43	4 27	4 6	3 37	2 52	1 12
Aug. 1	7 5	6 46	6 30	6 16	6 3	5 49	5 35	5 19	4 58	4 45	4 29	4 8	3 39	2 56	1 22
2	7 4	6 45	6 29	6 16	6 3	5 50	5 35	5 19	4 59	4 46	4 30	4 10	3 42	2 59	1 31
3	7 3	6 44	6 29	6 15	6 3	5 50	5 36	5 20	5 0	4 47	4 31	4 11	3 44	3 3	1 39
4	7 2	6 44	6 28	6 15	6 3	5 50	5 36	5 20	5 1	4 48	4 33	4 13	3 46	3 6	1 47
5	7 1	6 43	6 28	6 15	6 2	5 50	5 37	5 21	5 1	4 49	4 34	4 15	3 49	3 10	1 54
6	7 0	6 42	6 27	6 14	6 2	5 50	5 37	5 22	5 2	4 50	4 36	4 17	3 51	3 13	2 1
7	6 59	6 41	6 27	6 14	6 2	5 50	5 37	5 22	5 3	4 51	4 37	4 19	3 54	3 16	2 8
8	6 58	6 40	6 26	6 14	6 2	5 50	5 38	5 23	5 4	4 53	4 38	4 20	3 56	3 20	2 14
9	6 56	6 39	6 26	6 13	6 2	5 50	5 38	5 24	5 5	4 54	4 40	4 22	3 58	3 23	2 20
10	6 55	6 39	6 25	6 13	6 2	5 51	5 38	5 24	5 6	4 55	4 41	4 24	4 1	3 27	2 26
11	6 54	6 38	6 24	6 13	6 2	5 51	5 39	5 25	5 7	4 56	4 43	4 26	4 3	3 30	2 32
12	6 53	6 37	6 24	6 12	6 2	5 51	5 39	5 25	5 8	4 57	4 44	4 28	4 6	3 33	2 38
13	6 51	6 36	6 23	6 12	6 2	5 51	5 39	5 26	5 9	4 59	4 46	4 30	4 8	3 37	2 43
14	6 50	6 35	6 23	6 12	6 1	5 51	5 39	5 27	5 10	5 0	4 47	4 32	4 11	3 40	2 49
15	6 49	6 34	6 22	6 11	6 1	5 51	5 40	5 27	5 11	5 1	4 49	4 33	4 13	3 43	2 54
16	6 48	6 33	6 21	6 11	6 1	5 51	5 40	5 28	5 12	5 2	4 50	4 35	4 15	3 47	2 59
17	6 46	6 32	6 21	6 10	6 1	5 51	5 40	5 28	5 13	5 3	4 52	4 37	4 18	3 50	3 4
18	6 45	6 31	6 19	6 10	6 1	5 51	5 41	5 29	5 14	5 5	4 53	4 39	4 20	3 53	3 9
19	6 43	6 30	6 19	6 9	6 0	5 51	5 41	5 29	5 15	5 6	4 55	4 41	4 23	3 56	3 14
20	6 42	6 29	6 18	6 9	6 0	5 51	5 41	5 30	5 16	5 7	4 56	4 43	4 25	4 0	3 19
21	6 41	6 28	6 18	6 8	6 0	5 51	5 41	5 31	5 17	5 8	4 58	4 45	4 27	4 3	3 24
22	6 39	6 27	6 17	6 8	6 0	5 51	5 42	5 31	5 18	5 9	4 59	4 46	4 30	4 6	3 28
23	6 38	6 26	6 16	6 7	5 59	5 51	5 42	5 32	5 19	5 11	5 1	4 48	4 32	4 9	3 33
24	6 36	6 25	6 15	6 7	5 59	5 51	5 42	5 32	5 20	5 12	5 2	4 50	4 35	4 12	3 38
25	6 35	6 24	6 15	6 6	5 59	5 51	5 42	5 33	5 21	5 13	5 4	4 52	4 37	4 16	3 42
26	6 33	6 23	6 14	6 6	5 59	5 51	5 43	5 33	5 21	5 14	5 5	4 54	4 39	4 19	3 47
27	6 32	6 22	6 13	6 5	5 58	5 51	5 43	5 34	5 22	5 15	5 7	4 56	4 42	4 22	3 51
28	6 30	6 20	6 12	6 5	5 58	5 51	5 43	5 34	5 23	5 16	5 8	4 58	4 44	4 25	3 56
29	6 29	6 19	6 11	6 4	5 58	5 51	5 43	5 35	5 24	5 18	5 10	5 0	4 47	4 28	4 0
30	6 27	6 18	6 11	6 4	5 57	5 51	5 44	5 36	5 25	5 19	5 11	5 2	4 49	4 31	4 4
31	6 26	6 17	6 10	6 3	5 57	5 51	5 44	5 36	5 26	5 20	5 13	5 3	4 51	4 35	4 9
Sept. 1	6 24	6 16	6 9	6 3	5 57	5 51	5 44	5 37	5 27	5 21	5 14	5 5	4 54	4 38	4 13
2	6 23	6 15	6 8	6 2	5 56	5 51	5 44	5 37	5 28	5 22	5 16	5 7	4 56	4 41	4 17
3	6 21	6 13	6 7	6 1	5 56	5 51	5 45	5 38	5 29	5 24	5 17	5 9	4 58	4 44	4 21

Sonnenuntergang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Juli 24	17 1	17 23	17 40	17 55	18 10	18 25	18 40	18 59	19 22	19 36	19 54	20 18	20 50	21 42	
25	17 2	17 23	17 40	17 56	18 10	18 24	18 40	18 58	19 21	19 35	19 53	20 16	20 48	21 39	
26	17 2	17 24	17 41	17 56	18 10	18 24	18 40	18 58	19 20	19 34	19 52	20 14	20 46	21 35	
27	17 3	17 24	17 41	17 56	18 10	18 24	18 39	18 57	19 19	19 33	19 50	20 13	20 43	21 32	23 52
28	17 4	17 25	17 41	17 56	18 10	18 24	18 39	18 56	19 18	19 32	19 49	20 11	20 41	21 28	23 28
29	17 5	17 25	17 42	17 56	18 10	18 24	18 38	18 56	19 17	19 31	19 48	20 9	20 39	21 25	23 13
30	17 6	17 26	17 42	17 56	18 10	18 23	18 38	18 55	19 16	19 30	19 46	20 7	20 36	21 21	23 2
31	17 7	17 27	17 43	17 57	18 10	18 23	18 38	18 54	19 15	19 29	19 45	20 6	20 34	21 18	22 52
Aug. 1	17 8	17 27	17 43	17 57	18 10	18 23	18 37	18 53	19 14	19 27	19 43	20 4	20 31	21 14	22 42
2	17 9	17 28	17 43	17 57	18 10	18 23	18 37	18 53	19 13	19 26	19 42	20 2	20 29	21 10	22 34
3	17 10	17 28	17 44	17 57	18 10	18 22	18 36	18 52	19 12	19 25	19 40	20 0	20 26	21 7	22 26
4	17 10	17 29	17 44	17 57	18 10	18 22	18 36	18 51	19 11	19 23	19 39	19 58	20 24	21 3	22 19
5	17 11	17 29	17 44	17 57	18 9	18 22	18 35	18 50	19 10	19 22	19 37	19 56	20 21	21 0	22 12
6	17 12	17 30	17 45	17 57	18 9	18 21	18 35	18 49	19 9	19 21	19 35	19 54	20 19	20 56	22 5
7	17 13	17 31	17 45	17 57	18 9	18 21	18 34	18 49	19 8	19 19	19 34	19 52	20 16	20 52	21 58
8	17 14	17 31	17 45	17 58	18 9	18 21	18 33	18 48	19 6	19 18	19 32	19 50	20 14	20 49	21 52
9	17 15	17 32	17 46	17 58	18 9	18 20	18 33	18 47	19 5	19 16	19 30	19 47	20 11	20 45	21 46
10	17 16	17 32	17 46	17 58	18 9	18 20	18 32	18 46	19 4	19 15	19 28	19 45	20 8	20 42	21 40
11	17 17	17 33	17 46	17 58	18 9	18 20	18 32	18 45	19 3	19 13	19 27	19 43	20 5	20 38	21 34
12	17 18	17 34	17 46	17 58	18 8	18 19	18 31	18 44	19 1	19 12	19 25	19 41	20 3	20 34	21 28
13	17 19	17 34	17 47	17 58	18 8	18 19	18 30	18 43	19 0	19 10	19 23	19 39	20 0	20 31	21 22
14	17 20	17 35	17 47	17 58	18 8	18 18	18 30	18 42	18 59	19 9	19 21	19 36	19 57	20 27	21 16
15	17 21	17 35	17 47	17 58	18 8	18 18	18 29	18 42	18 57	19 7	19 19	19 34	19 54	20 23	21 11
16	17 22	17 36	17 48	17 58	18 8	18 18	18 28	18 41	18 56	19 6	19 17	19 32	19 51	20 20	21 5
17	17 23	17 36	17 48	17 58	18 7	18 17	18 27	18 40	18 54	19 4	19 15	19 30	19 49	20 16	21 0
18	17 23	17 37	17 48	17 58	18 7	18 17	18 27	18 39	18 53	19 2	19 13	19 27	19 46	20 12	20 55
19	17 24	17 38	17 48	17 58	18 7	18 16	18 26	18 38	18 52	19 1	19 11	19 25	19 43	20 8	20 49
20	17 25	17 38	17 49	17 58	18 7	18 16	18 25	18 37	18 50	18 59	19 9	19 23	19 40	20 5	20 44
21	17 26	17 39	17 49	17 58	18 6	18 15	18 25	18 36	18 49	18 57	19 7	19 20	19 37	20 1	20 39
22	17 27	17 39	17 49	17 58	18 6	18 15	18 24	18 34	18 47	18 56	19 6	19 18	19 34	19 57	20 34
23	17 28	17 40	17 49	17 58	18 6	18 14	18 23	18 33	18 46	18 54	19 4	19 16	19 31	19 54	20 29
24	17 29	17 40	17 50	17 58	18 6	18 14	18 22	18 32	18 44	18 52	19 2	19 13	19 29	19 50	20 24
25	17 30	17 41	17 50	17 58	18 5	18 13	18 21	18 31	18 43	18 51	18 59	19 11	19 26	19 46	20 19
26	17 31	17 41	17 50	17 58	18 5	18 13	18 21	18 30	18 41	18 49	18 57	19 8	19 23	19 43	20 14
27	17 32	17 42	17 50	17 58	18 5	18 12	18 20	18 29	18 40	18 47	18 55	19 6	19 20	19 39	20 9
28	17 33	17 42	17 51	17 58	18 5	18 12	18 19	18 28	18 38	18 45	18 53	19 4	19 17	19 35	20 4
29	17 34	17 43	17 51	17 58	18 4	18 11	18 18	18 26	18 37	18 43	18 51	19 1	19 14	19 32	19 59
30	17 35	17 44	17 51	17 58	18 4	18 10	18 17	18 25	18 35	18 42	18 49	18 59	19 11	19 28	19 54
31	17 36	17 44	17 51	17 58	18 4	18 10	18 17	18 24	18 34	18 40	18 47	18 56	19 8	19 24	19 49
Sept. 1	17 36	17 45	17 52	17 58	18 3	18 9	18 16	18 23	18 32	18 38	18 45	18 54	19 5	19 20	19 44
2	17 37	17 45	17 52	17 58	18 3	18 9	18 15	18 22	18 31	18 36	18 43	18 51	19 2	19 17	19 39
3	17 38	17 46	17 52	17 58	18 3	18 8	18 14	18 20	18 29	18 34	18 41	18 49	18 59	19 13	19 35

Sonnenaufgang 1945

Mittlere Ortszeit | Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Sept. 3	6 21	6 13	6 7	6 1	5 56	5 51	5 45	5 38	5 29	5 24	5 17	5 9	4 58	4 44	4 21
4	6 20	6 12	6 6	6 1	5 56	5 51	5 45	5 38	5 30	5 25	5 19	5 11	5 1	4 47	4 26
5	6 18	6 11	6 5	6 0	5 55	5 51	5 45	5 39	5 31	5 26	5 20	5 13	5 3	4 50	4 30
6	6 16	6 10	6 5	6 0	5 55	5 50	5 45	5 39	5 32	5 27	5 22	5 15	5 5	4 53	4 34
7	6 15	6 9	6 4	5 59	5 55	5 50	5 45	5 40	5 33	5 29	5 23	5 17	5 8	4 56	4 38
8	6 13	6 7	6 3	5 58	5 55	5 50	5 46	5 41	5 34	5 30	5 25	5 18	5 10	4 59	4 42
9	6 12	6 6	6 2	5 58	5 54	5 50	5 46	5 41	5 35	5 31	5 26	5 20	5 13	5 2	4 46
10	6 10	6 5	6 1	5 57	5 54	5 50	5 46	5 42	5 36	5 32	5 28	5 22	5 15	5 5	4 50
11	6 8	6 4	6 0	5 57	5 53	5 50	5 46	5 42	5 37	5 33	5 29	5 24	5 17	5 8	4 54
12	6 7	6 3	5 59	5 56	5 53	5 50	5 47	5 43	5 38	5 34	5 31	5 26	5 20	5 11	4 58
13	6 5	6 1	5 58	5 55	5 53	5 50	5 47	5 43	5 39	5 36	5 32	5 28	5 22	5 14	5 2
14	6 3	6 0	5 57	5 55	5 52	5 50	5 47	5 43	5 39	5 37	5 34	5 30	5 24	5 17	5 6
15	6 2	5 59	5 56	5 54	5 52	5 50	5 47	5 44	5 40	5 38	5 35	5 31	5 27	5 20	5 10
16	6 0	5 58	5 56	5 53	5 52	5 50	5 47	5 45	5 41	5 39	5 37	5 33	5 29	5 23	5 14
17	5 58	5 56	5 55	5 53	5 51	5 50	5 48	5 46	5 42	5 40	5 38	5 35	5 31	5 26	5 18
18	5 57	5 55	5 54	5 52	5 51	5 50	5 48	5 46	5 43	5 42	5 40	5 37	5 34	5 29	5 22
19	5 55	5 54	5 53	5 52	5 51	5 49	5 48	5 47	5 44	5 43	5 41	5 39	5 36	5 32	5 26
20	5 53	5 53	5 52	5 51	5 50	5 49	5 48	5 47	5 45	5 44	5 43	5 41	5 38	5 35	5 30
21	5 52	5 51	5 51	5 50	5 50	5 49	5 49	5 48	5 46	5 45	5 44	5 43	5 41	5 38	5 34
22	5 50	5 50	5 50	5 50	5 50	5 49	5 49	5 48	5 47	5 46	5 46	5 45	5 43	5 41	5 38
23	5 48	5 49	5 49	5 49	5 49	5 49	5 49	5 49	5 48	5 48	5 47	5 46	5 46	5 44	5 42
24	5 47	5 48	5 48	5 48	5 49	5 49	5 49	5 49	5 49	5 49	5 49	5 48	5 48	5 47	5 46
25	5 45	5 46	5 47	5 48	5 49	5 49	5 49	5 50	5 50	5 50	5 50	5 50	5 50	5 50	5 50
26	5 44	5 45	5 46	5 47	5 48	5 49	5 50	5 50	5 51	5 51	5 52	5 52	5 53	5 53	5 54
27	5 42	5 44	5 45	5 47	5 48	5 49	5 50	5 51	5 52	5 52	5 53	5 54	5 55	5 56	5 58
28	5 40	5 43	5 45	5 46	5 48	5 49	5 50	5 52	5 53	5 54	5 55	5 56	5 57	5 59	6 2
29	5 39	5 41	5 44	5 45	5 47	5 49	5 50	5 52	5 54	5 55	5 56	5 58	6 0	6 2	6 6
30	5 37	5 40	5 43	5 45	5 47	5 49	5 51	5 53	5 55	5 56	5 58	6 0	6 2	6 5	6 10
Okt. 1	5 35	5 39	5 42	5 44	5 47	5 49	5 51	5 53	5 56	5 57	5 59	6 2	6 4	6 8	6 14
2	5 34	5 38	5 41	5 44	5 46	5 49	5 51	5 54	5 57	5 59	6 1	6 3	6 7	6 11	6 18
3	5 32	5 37	5 40	5 43	5 46	5 49	5 51	5 54	5 58	6 0	6 2	6 5	6 9	6 14	6 22
4	5 30	5 35	5 39	5 42	5 46	5 49	5 51	5 55	5 59	6 1	6 4	6 7	6 12	6 17	6 26
5	5 29	5 34	5 38	5 42	5 45	5 48	5 52	5 56	6 0	6 2	6 5	6 9	6 14	6 20	6 30
6	5 27	5 33	5 37	5 41	5 45	5 48	5 52	5 56	6 1	6 4	6 7	6 11	6 16	6 23	6 34
7	5 26	5 32	5 37	5 41	5 45	5 48	5 52	5 57	6 2	6 5	6 8	6 13	6 19	6 27	6 38
8	5 24	5 31	5 36	5 40	5 44	5 48	5 53	5 57	6 3	6 6	6 10	6 15	6 21	6 30	6 42
9	5 22	5 29	5 35	5 40	5 44	5 48	5 53	5 58	6 4	6 7	6 12	6 17	6 24	6 33	6 46
10	5 21	5 28	5 34	5 39	5 44	5 48	5 53	5 59	6 5	6 9	6 13	6 19	6 26	6 36	6 50
11	5 19	5 27	5 33	5 39	5 44	5 48	5 53	5 59	6 6	6 10	6 15	6 21	6 29	6 39	6 54
12	5 18	5 26	5 33	5 38	5 43	5 48	5 54	6 0	6 7	6 11	6 16	6 23	6 31	6 42	6 59
13	5 16	5 25	5 32	5 38	5 43	5 48	5 54	6 0	6 8	6 13	6 18	6 25	6 34	6 45	7 3
14	5 15	5 24	5 31	5 37	5 43	5 49	5 54	6 1	6 9	6 14	6 20	6 27	6 36	6 48	7 7

Sonnenuntergang 1945

Mittlere Ortszeit | Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Sept. 3	17 38	17 46	17 52	17 58	18 3	18 8	18 14	18 20	18 29	18 34	18 41	18 49	18 59	19 13	19 35
4	17 39	17 46	17 52	17 58	18 2	18 7	18 13	18 19	18 28	18 33	18 39	18 46	18 56	19 9	19 30
5	17 40	17 47	17 52	17 57	18 2	18 7	18 12	18 18	18 26	18 31	18 36	18 43	18 53	19 6	19 25
6	17 41	17 47	17 53	17 57	18 2	18 6	18 11	18 17	18 24	18 29	18 34	18 41	18 50	19 2	19 20
7	17 42	17 48	17 53	17 57	18 1	18 6	18 10	18 16	18 23	18 27	18 32	18 38	18 47	18 58	19 15
8	17 43	17 48	17 53	17 57	18 1	18 5	18 10	18 14	18 21	18 25	18 30	18 36	18 44	18 55	19 11
9	17 44	17 49	17 53	17 57	18 1	18 4	18 9	18 13	18 19	18 23	18 28	18 33	18 41	18 51	19 6
10	17 45	17 50	17 53	17 57	18 0	18 4	18 8	18 12	18 18	18 21	18 25	18 31	18 38	18 47	19 1
11	17 46	17 50	17 54	17 57	18 0	18 3	18 7	18 11	18 16	18 19	18 23	18 28	18 35	18 43	18 56
12	17 47	17 51	17 54	17 57	18 0	18 3	18 6	18 9	18 14	18 17	18 21	18 26	18 32	18 40	18 52
13	17 48	17 51	17 54	17 57	17 59	18 2	18 5	18 8	18 13	18 16	18 19	18 23	18 29	18 36	18 47
14	17 49	17 52	17 54	17 57	17 59	18 1	18 4	18 7	18 11	18 14	18 17	18 21	18 26	18 32	18 42
15	17 50	17 52	17 55	17 57	17 59	18 1	18 3	18 6	18 10	18 12	18 15	18 18	18 23	18 29	18 38
16	17 50	17 53	17 55	17 57	17 58	18 0	18 2	18 4	18 8	18 10	18 12	18 15	18 20	18 25	18 33
17	17 51	17 53	17 55	17 57	17 58	17 59	18 1	18 3	18 6	18 8	18 10	18 13	18 16	18 21	18 28
18	17 52	17 54	17 55	17 57	17 58	17 59	18 0	18 2	18 5	18 6	18 8	18 10	18 13	18 18	18 24
19	17 53	17 54	17 55	17 56	17 57	17 58	18 0	18 1	18 3	18 4	18 6	18 8	18 10	18 14	18 19
20	17 54	17 55	17 56	17 56	17 57	17 58	17 59	17 59	18 1	18 2	18 4	18 5	18 7	18 10	18 15
21	17 55	17 55	17 56	17 56	17 56	17 57	17 58	17 58	18 0	18 0	18 1	18 3	18 4	18 7	18 10
22	17 56	17 56	17 56	17 56	17 56	17 56	17 57	17 57	17 58	17 59	17 59	18 0	18 1	18 3	18 5
23	17 57	17 57	17 56	17 56	17 56	17 56	17 56	17 56	17 56	17 57	17 57	17 57	17 58	17 59	18 1
24	17 58	17 57	17 56	17 56	17 55	17 55	17 55	17 54	17 55	17 55	17 55	17 55	17 55	17 55	17 56
25	17 59	17 58	17 57	17 56	17 55	17 54	17 54	17 53	17 53	17 53	17 53	17 52	17 52	17 52	17 51
26	18 0	17 58	17 57	17 56	17 55	17 54	17 53	17 52	17 51	17 51	17 50	17 50	17 49	17 48	17 47
27	18 1	17 59	17 57	17 56	17 54	17 53	17 52	17 51	17 50	17 49	17 48	17 47	17 46	17 44	17 42
28	18 2	17 59	17 57	17 56	17 54	17 53	17 51	17 50	17 48	17 47	17 46	17 45	17 43	17 41	17 38
29	18 3	18 0	17 58	17 56	17 54	17 52	17 50	17 48	17 47	17 45	17 44	17 42	17 40	17 37	17 33
30	18 4	18 0	17 58	17 56	17 53	17 51	17 49	17 47	17 45	17 44	17 42	17 40	17 37	17 33	17 28
Okt. 1	18 5	18 1	17 58	17 56	17 53	17 51	17 49	17 46	17 43	17 42	17 40	17 37	17 34	17 30	17 24
2	18 6	18 2	17 58	17 55	17 53	17 50	17 48	17 45	17 42	17 40	17 37	17 34	17 31	17 26	17 19
3	18 7	18 2	17 59	17 55	17 52	17 50	17 47	17 44	17 40	17 38	17 35	17 32	17 28	17 22	17 14
4	18 8	18 3	17 59	17 55	17 52	17 49	17 46	17 42	17 38	17 36	17 33	17 29	17 25	17 19	17 10
5	18 9	18 3	17 59	17 55	17 52	17 49	17 45	17 41	17 37	17 34	17 31	17 27	17 22	17 15	17 5
6	18 10	18 4	17 59	17 55	17 51	17 48	17 44	17 40	17 35	17 32	17 29	17 24	17 19	17 12	17 1
7	18 11	18 5	18 0	17 55	17 51	17 47	17 43	17 39	17 34	17 30	17 27	17 22	17 16	17 8	16 56
8	18 12	18 5	18 0	17 55	17 51	17 47	17 43	17 38	17 32	17 29	17 24	17 19	17 13	17 4	16 51
9	18 13	18 6	18 0	17 55	17 51	17 46	17 42	17 37	17 30	17 27	17 22	17 17	17 10	17 1	16 47
10	18 14	18 7	18 0	17 55	17 50	17 46	17 41	17 35	17 29	17 25	17 20	17 14	17 7	16 57	16 42
11	18 15	18 7	18 1	17 55	17 50	17 45	17 40	17 34	17 27	17 23	17 18	17 12	17 4	16 53	16 38
12	18 16	18 8	18 1	17 55	17 50	17 45	17 39	17 33	17 26	17 21	17 16	17 10	17 1	16 50	16 33
13	18 17	18 9	18 1	17 55	17 50	17 44	17 38	17 32	17 24	17 20	17 14	17 7	16 58	16 46	16 28
14	18 18	18 9	18 2	17 55	17 50	17 44	17 38	17 31	17 23	17 18	17 12	17 5	16 55	16 42	16 24

Sonnenaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Okt. 14	5 15	5 24	5 31	5 37	5 43	5 49	5 54	6 1	6 9	6 14	6 20	6 27	6 36	6 48	7 7
15	5 13	5 23	5 30	5 37	5 43	5 49	5 55	6 2	6 10	6 15	6 21	6 29	6 38	6 52	7 11
16	5 12	5 22	5 29	5 36	5 42	5 49	5 55	6 2	6 11	6 17	6 23	6 31	6 41	6 55	7 16
17	5 10	5 20	5 29	5 36	5 42	5 49	5 55	6 3	6 12	6 18	6 24	6 33	6 43	6 58	7 20
18	5 9	5 19	5 28	5 35	5 42	5 49	5 56	6 4	6 13	6 19	6 26	6 35	6 46	7 1	7 24
19	5 7	5 18	5 27	5 35	5 42	5 49	5 56	6 4	6 14	6 20	6 28	6 37	6 48	7 4	7 29
20	5 6	5 17	5 26	5 34	5 42	5 49	5 57	6 5	6 15	6 22	6 29	6 39	6 51	7 8	7 33
21	5 4	5 16	5 26	5 34	5 41	5 49	5 57	6 6	6 17	6 23	6 31	6 41	6 53	7 11	7 37
22	5 3	5 15	5 25	5 33	5 41	5 49	5 57	6 6	6 18	6 24	6 33	6 43	6 56	7 14	7 42
23	5 2	5 14	5 24	5 33	5 41	5 49	5 58	6 7	6 19	6 26	6 34	6 45	6 58	7 17	7 46
24	5 0	5 13	5 24	5 33	5 41	5 49	5 58	6 8	6 20	6 27	6 36	6 47	7 1	7 21	7 51
25	4 59	5 12	5 23	5 32	5 41	5 49	5 58	6 9	6 21	6 28	6 38	6 49	7 3	7 24	7 55
26	4 58	5 11	5 22	5 32	5 41	5 50	5 59	6 9	6 22	6 30	6 39	6 51	7 6	7 27	8 0
27	4 56	5 10	5 22	5 31	5 41	5 50	5 59	6 10	6 23	6 31	6 41	6 53	7 9	7 30	8 5
28	4 55	5 9	5 21	5 31	5 41	5 50	6 0	6 11	6 24	6 33	6 43	6 55	7 11	7 34	8 9
29	4 53	5 8	5 20	5 31	5 41	5 50	6 0	6 12	6 25	6 34	6 44	6 57	7 14	7 37	8 14
30	4 52	5 8	5 20	5 30	5 40	5 50	6 1	6 12	6 27	6 35	6 46	6 59	7 16	7 41	8 19
31	4 51	5 7	5 19	5 30	5 40	5 50	6 1	6 13	6 28	6 37	6 47	7 1	7 19	7 44	8 24
Nov. 1	4 50	5 6	5 19	5 30	5 40	5 51	6 1	6 14	6 29	6 38	6 49	7 3	7 21	7 47	8 29
2	4 48	5 5	5 18	5 30	5 40	5 51	6 2	6 15	6 30	6 39	6 51	7 5	7 24	7 51	8 34
3	4 47	5 4	5 18	5 29	5 40	5 51	6 2	6 15	6 31	6 41	6 52	7 7	7 26	7 54	8 39
4	4 46	5 3	5 17	5 29	5 40	5 51	6 3	6 16	6 32	6 42	6 54	7 9	7 29	7 58	8 44
5	4 45	5 3	5 17	5 29	5 40	5 52	6 3	6 17	6 33	6 43	6 56	7 11	7 32	8 1	8 49
6	4 44	5 2	5 16	5 29	5 40	5 52	6 4	6 18	6 34	6 45	6 57	7 13	7 34	8 4	8 55
7	4 43	5 1	5 16	5 29	5 40	5 52	6 4	6 19	6 36	6 46	6 59	7 15	7 37	8 8	9 0
8	4 42	5 0	5 15	5 28	5 40	5 52	6 5	6 19	6 37	6 48	7 1	7 17	7 39	8 11	9 5
9	4 41	5 0	5 15	5 28	5 40	5 53	6 5	6 20	6 38	6 49	7 2	7 19	7 42	8 15	9 11
10	4 40	4 59	5 15	5 28	5 41	5 53	6 6	6 21	6 39	6 50	7 4	7 21	7 44	8 18	9 17
11	4 39	4 58	5 14	5 28	5 41	5 53	6 6	6 22	6 40	6 52	7 6	7 23	7 47	8 22	9 23
12	4 38	4 58	5 14	5 28	5 41	5 54	6 7	6 22	6 41	6 53	7 7	7 25	7 50	8 25	9 29
13	4 37	4 57	5 14	5 28	5 41	5 54	6 8	6 23	6 42	6 55	7 9	7 27	7 52	8 29	9 35
14	4 36	4 57	5 13	5 28	5 41	5 54	6 8	6 24	6 44	6 56	7 11	7 29	7 55	8 32	9 41
15	4 35	4 56	5 13	5 28	5 41	5 55	6 9	6 25	6 45	6 57	7 12	7 31	7 57	8 36	9 47
16	4 34	4 56	5 13	5 28	5 41	5 55	6 9	6 26	6 46	6 59	7 14	7 33	8 0	8 39	9 54
17	4 33	4 55	5 13	5 28	5 41	5 55	6 10	6 26	6 47	7 0	7 16	7 35	8 2	8 43	10 1
18	4 33	4 55	5 12	5 28	5 42	5 56	6 11	6 27	6 48	7 1	7 17	7 37	8 5	8 46	10 8
19	4 32	4 54	5 12	5 28	5 42	5 56	6 11	6 28	6 49	7 3	7 19	7 39	8 7	8 50	10 16
20	4 31	4 54	5 12	5 28	5 42	5 56	6 12	6 29	6 51	7 4	7 20	7 41	8 9	8 53	10 24
21	4 31	4 54	5 12	5 28	5 42	5 57	6 12	6 30	6 52	7 5	7 22	7 43	8 12	8 56	10 33
22	4 30	4 53	5 12	5 28	5 43	5 57	6 13	6 31	6 53	7 7	7 23	7 45	8 14	9 0	10 42
23	4 29	4 53	5 12	5 28	5 43	5 58	6 14	6 31	6 54	7 8	7 25	7 47	8 17	9 3	10 52
24	4 29	4 53	5 12	5 28	5 43	5 58	6 14	6 32	6 55	7 9	7 26	7 49	8 19	9 7	11 5

Mittlere Ortszeit — Meridian von Greenwich

Tag	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Okt. 14	18 18	18 9	18 2	17 55	17 50	17 44	17 38	17 31	17 23	17 18	17 12	17 5	16 55	16 42	16 24
15	18 19	18 10	18 2	17 55	17 49	17 43	17 37	17 30	17 21	17 16	17 10	17 2	16 52	16 39	16 19
16	18 21	18 10	18 2	17 56	17 49	17 43	17 36	17 29	17 20	17 14	17 8	17 0	16 50	16 35	16 14
17	18 22	18 11	18 3	17 56	17 49	17 42	17 35	17 28	17 18	17 13	17 6	16 57	16 47	16 32	16 10
18	18 23	18 12	18 3	17 56	17 49	17 42	17 35	17 27	17 17	17 11	17 4	16 55	16 44	16 28	16 5
19	18 24	18 13	18 4	17 56	17 49	17 41	17 34	17 26	17 15	17 9	17 2	16 53	16 41	16 25	16 0
20	18 25	18 13	18 4	17 56	17 48	17 41	17 33	17 25	17 14	17 8	17 0	16 50	16 38	16 21	15 55
21	18 26	18 14	18 4	17 56	17 48	17 41	17 33	17 24	17 13	17 6	16 58	16 48	16 35	16 18	15 51
22	18 27	18 15	18 5	17 56	17 48	17 40	17 32	17 23	17 11	17 4	16 56	16 46	16 32	16 14	15 46
23	18 28	18 15	18 5	17 56	17 48	17 40	17 31	17 22	17 10	17 3	16 54	16 43	16 30	16 10	15 41
24	18 29	18 16	18 5	17 56	17 48	17 39	17 31	17 21	17 8	17 1	16 52	16 41	16 27	16 7	15 36
25	18 30	18 17	18 6	17 56	17 48	17 39	17 30	17 20	17 7	16 59	16 50	16 39	16 24	16 3	15 32
26	18 32	18 18	18 6	17 57	17 48	17 39	17 29	17 19	17 6	16 58	16 48	16 37	16 21	16 0	15 27
27	18 33	18 18	18 7	17 57	17 47	17 38	17 29	17 18	17 4	16 56	16 47	16 34	16 19	15 56	15 22
28	18 34	18 19	18 7	17 57	17 47	17 38	17 28	17 17	17 3	16 55	16 45	16 32	16 16	15 53	15 17
29	18 35	18 20	18 8	17 57	17 47	17 38	17 28	17 16	17 2	16 53	16 43	16 30	16 13	15 49	15 12
30	18 36	18 21	18 8	17 57	17 47	17 37	17 27	17 15	17 1	16 52	16 41	16 28	16 10	15 46	15 7
31	18 37	18 21	18 9	17 58	17 47	17 37	17 26	17 14	16 59	16 50	16 39	16 26	16 8	15 43	15 2
Nov. 1	18 38	18 22	18 9	17 58	17 47	17 37	17 26	17 13	16 58	16 49	16 38	16 24	16 5	15 39	14 57
2	18 40	18 23	18 9	17 58	17 47	17 37	17 25	17 13	16 57	16 47	16 36	16 22	16 3	15 36	14 52
3	18 41	18 24	18 10	17 58	17 47	17 36	17 25	17 12	16 56	16 46	16 34	16 20	16 0	15 32	14 47
4	18 42	18 25	18 10	17 58	17 47	17 36	17 24	17 11	16 55	16 45	16 33	16 18	15 57	15 29	14 42
5	18 43	18 25	18 11	17 59	17 47	17 36	17 24	17 10	16 54	16 43	16 31	16 16	15 55	15 25	14 37
6	18 44	18 26	18 11	17 59	17 47	17 36	17 23	17 10	16 53	16 42	16 29	16 14	15 52	15 22	14 32
7	18 46	18 27	18 12	17 59	17 47	17 36	17 23	17 9	16 52	16 41	16 28	16 12	15 50	15 19	14 26
8	18 47	18 28	18 13	17 59	17 47	17 35	17 23	17 8	16 51	16 40	16 26	16 10	15 48	15 16	14 21
9	18 48	18 29	18 13	18 0	17 47	17 35	17 22	17 8	16 50	16 38	16 25	16 8	15 45	15 12	14 16
10	18 49	18 29	18 14	18 0	17 48	17 35	17 22	17 7	16 49	16 37	16 23	16 6	15 43	15 9	14 10
11	18 50	18 30	18 14	18 0	17 48	17 35	17 22	17 7	16 48	16 36	16 22	16 4	15 40	15 6	14 5
12	18 51	18 31	18 15	18 1	17 48	17 35	17 21	17 6	16 47	16 35	16 20	16 2	15 38	15 2	13 59
13	18 53	18 32	18 15	18 1	17 48	17 35	17 21	17 5	16 46	16 34	16 19	16 1	15 36	14 59	13 53
14	18 54	18 33	18 16	18 1	17 48	17 35	17 21	17 5	16 45	16 33	16 18	15 59	15 34	14 56	13 47
15	18 55	18 34	18 17	18 2	17 48	17 35	17 20	17 4	16 44	16 32	16 16	15 57	15 31	14 53	13 41
16	18 56	18 34	18 17	18 2	17 48	17 35	17 20	17 4	16 43	16 31	16 15	15 56	15 29	14 50	13 35
17	18 57	18 35	18 18	18 3	17 49	17 35	17 20	17 3	16 43	16 30	16 14	15 54	15 27	14 47	13 28
18	18 58	18 36	18 18	18 3	17 49	17 35	17 20	17 3	16 42	16 29	16 13	15 53	15 25	14 44	13 21
19	19 0	18 37	18 19	18 3	17 49	17 35	17 20	17 3	16 41	16 28	16 12	15 51	15 23	14 41	13 14
20	19 1	18 38	18 20	18 4	17 49	17 35	17 20	17 2	16 40	16 27	16 11	15 50	15 21	14 38	13 7
21	19 2	18 39	18 20	18 4	17 50	17 35	17 19	17 2	16 40	16 26	16 10	15 48	15 19	14 35	12 59
22	19 3	18 39	18 21	18 5	17 50	17 35	17 19	17 1	16 39	16 25	16 9	15 47	15 17	14 32	12 50
23	19 4	18 40	18 22	18 5	17 50	17 35	17 19	17 1	16 39	16 25	16 8	15 46	15 16	14 29	12 40
24	19 5	18 41	18 22	18 6	17 50	17 35	17 19	17 1	16 38	16 24	16 7	15 44	15 14	14 26	12 28

Sonnenaufgang 1945

Mittlere Ortszeit | Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Nov. 24	4 29	4 53	5 12	5 28	5 43	5 58	6 14	6 32	6 55	7 9	7 26	7 49	8 19	9 7	11 5
25	4 28	4 52	5 11	5 28	5 43	5 59	6 15	6 33	6 56	7 10	7 28	7 50	8 21	9 10	11 23
26	4 28	4 52	5 11	5 28	5 44	5 59	6 15	6 34	6 57	7 12	7 29	7 52	8 24	9 13	
27	4 27	4 52	5 11	5 28	5 44	6 0	6 16	6 35	6 58	7 13	7 31	7 54	8 26	9 17	
28	4 27	4 52	5 11	5 29	5 44	6 0	6 17	6 36	6 59	7 14	7 32	7 56	8 28	9 20	
29	4 26	4 52	5 12	5 29	5 45	6 1	6 17	6 36	7 0	7 15	7 34	7 57	8 30	9 23	
30	4 26	4 52	5 12	5 29	5 45	6 1	6 18	6 37	7 1	7 17	7 35	7 59	8 32	9 26	
Dez. 1	4 26	4 51	5 12	5 29	5 45	6 2	6 19	6 38	7 2	7 18	7 36	8 1	8 34	9 29	
2	4 25	4 51	5 12	5 30	5 46	6 2	6 19	6 39	7 3	7 19	7 38	8 2	8 36	9 32	
3	4 25	4 51	5 12	5 30	5 46	6 3	6 20	6 40	7 4	7 20	7 39	8 4	8 38	9 35	
4	4 25	4 51	5 12	5 30	5 47	6 3	6 20	6 40	7 5	7 21	7 40	8 5	8 40	9 38	
5	4 25	4 51	5 12	5 30	5 47	6 4	6 21	6 41	7 6	7 22	7 41	8 7	8 42	9 41	
6	4 25	4 51	5 12	5 31	5 47	6 4	6 22	6 42	7 7	7 23	7 43	8 8	8 44	9 44	
7	4 25	4 52	5 13	5 31	5 48	6 5	6 22	6 43	7 8	7 24	7 44	8 10	8 46	9 47	
8	4 25	4 52	5 13	5 31	5 48	6 5	6 23	6 43	7 9	7 25	7 45	8 11	8 47	9 49	
9	4 25	4 52	5 13	5 32	5 49	6 6	6 24	6 44	7 10	7 26	7 46	8 12	8 49	9 52	
10	4 25	4 52	5 13	5 32	5 49	6 6	6 24	6 45	7 11	7 27	7 47	8 13	8 51	9 54	
11	4 25	4 52	5 14	5 33	5 50	6 7	6 25	6 46	7 12	7 28	7 48	8 15	8 52	9 56	
12	4 25	4 52	5 14	5 33	5 50	6 7	6 25	6 46	7 12	7 29	7 49	8 16	8 53	9 58	
13	4 25	4 53	5 14	5 33	5 51	6 8	6 26	6 47	7 13	7 30	7 50	8 17	8 55	10 0	
14	4 25	4 53	5 15	5 34	5 51	6 8	6 27	6 48	7 14	7 30	7 51	8 18	8 56	10 2	
15	4 25	4 53	5 15	5 34	5 51	6 9	6 27	6 48	7 15	7 31	7 52	8 19	8 57	10 4	
16	4 26	4 54	5 16	5 35	5 52	6 9	6 28	6 49	7 15	7 32	7 53	8 20	8 58	10 6	
17	4 26	4 54	5 16	5 35	5 52	6 10	6 28	6 49	7 16	7 33	7 53	8 20	8 59	10 7	
18	4 26	4 54	5 16	5 36	5 53	6 10	6 29	6 50	7 17	7 33	7 54	8 21	9 0	10 8	
19	4 27	4 55	5 17	5 36	5 53	6 11	6 29	6 51	7 17	7 34	7 55	8 22	9 1	10 9	
20	4 27	4 55	5 17	5 36	5 54	6 11	6 30	6 51	7 18	7 35	7 55	8 23	9 2	10 10	
21	4 27	4 56	5 18	5 37	5 54	6 12	6 30	6 52	7 18	7 35	7 56	8 23	9 2	10 11	
22	4 28	4 56	5 18	5 37	5 55	6 12	6 31	6 52	7 19	7 36	7 56	8 24	9 3	10 11	
23	4 28	4 57	5 19	5 38	5 55	6 13	6 31	6 53	7 19	7 36	7 57	8 24	9 3	10 12	
24	4 29	4 57	5 19	5 39	5 56	6 13	6 32	6 53	7 20	7 37	7 57	8 25	9 3	10 12	
25	4 30	4 58	5 20	5 39	5 56	6 14	6 32	6 53	7 20	7 37	7 58	8 25	9 4	10 12	
26	4 30	4 58	5 20	5 40	5 57	6 14	6 33	6 54	7 21	7 37	7 58	8 25	9 4	10 12	
27	4 31	4 59	5 21	5 40	5 57	6 15	6 33	6 54	7 21	7 38	7 58	8 25	9 4	10 12	
28	4 32	5 0	5 22	5 41	5 58	6 15	6 34	6 55	7 21	7 38	7 59	8 25	9 4	10 11	
29	4 32	5 0	5 22	5 41	5 58	6 16	6 34	6 55	7 21	7 38	7 59	8 25	9 4	10 10	
30	4 33	5 1	5 23	5 42	5 59	6 16	6 34	6 55	7 22	7 38	7 59	8 25	9 4	10 10	
31	4 34	5 1	5 23	5 42	5 59	6 17	6 35	6 56	7 22	7 38	7 59	8 25	9 3	10 9	
32	4 35	5 2	5 24	5 43	6 0	6 17	6 35	6 56	7 22	7 39	7 59	8 25	9 3	10 8	

Mittlere Ortszeit Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Nov. 24	19 5	18 41	18 22	18 6	17 50	17 35	17 19	17 1	16 38	16 24	16 7	15 44	15 14	14 26	12 28
25	19 6	18 42	18 23	18 6	17 51	17 35	17 19	17 1	16 38	16 23	16 6	15 43	15 12	14 23	12 10
26	19 7	18 43	18 23	18 7	17 51	17 35	17 19	17 0	16 37	16 23	16 5	15 42	15 10	14 21	
27	19 9	18 44	18 24	18 7	17 51	17 36	17 19	17 0	16 37	16 22	16 4	15 41	15 9	14 18	
28	19 10	18 44	18 25	18 8	17 52	17 36	17 19	17 0	16 36	16 22	16 3	15 40	15 7	14 16	
29	19 11	18 45	18 25	18 8	17 52	17 36	17 19	17 0	16 36	16 21	16 3	15 39	15 6	14 13	
30	19 12	18 46	18 26	18 8	17 52	17 36	17 19	17 0	16 36	16 21	16 2	15 38	15 5	14 11	
Dez. 1	19 13	18 47	18 27	18 9	17 53	17 36	17 19	17 0	16 36	16 20	16 1	15 37	15 3	14 8	
2	19 14	18 48	18 27	18 9	17 53	17 37	17 20	17 0	16 35	16 20	16 1	15 36	15 2	14 6	
3	19 15	18 48	18 28	18 10	17 54	17 37	17 20	17 0	16 35	16 20	16 0	15 36	15 1	14 4	
4	19 16	18 49	18 29	18 10	17 54	17 37	17 20	17 0	16 35	16 19	16 0	15 35	15 0	14 2	
5	19 17	18 50	18 29	18 11	17 54	17 38	17 20	17 0	16 35	16 19	15 59	15 34	14 59	14 0	
6	19 18	18 51	18 30	18 11	17 55	17 38	17 20	17 0	16 35	16 19	15 59	15 34	14 58	13 58	
7	19 19	18 52	18 30	18 12	17 55	17 38	17 20	17 0	16 35	16 19	15 59	15 33	14 57	13 56	
8	19 19	18 52	18 31	18 12	17 56	17 39	17 21	17 0	16 35	16 19	15 59	15 33	14 56	13 54	
9	19 20	18 53	18 32	18 13	17 56	17 39	17 21	17 1	16 35	16 18	15 58	15 32	14 55	13 53	
10	19 21	18 54	18 32	18 14	17 57	17 40	17 21	17 1	16 35	16 18	15 58	15 32	14 55	13 51	
11	19 22	18 55	18 33	18 14	17 57	17 40	17 22	17 1	16 35	16 18	15 58	15 32	14 54	13 50	
12	19 23	18 55	18 34	18 15	17 58	17 40	17 22	17 1	16 35	16 19	15 58	15 32	14 54	13 49	
13	19 24	18 56	18 34	18 15	17 58	17 41	17 22	17 2	16 35	16 19	15 58	15 31	14 53	13 48	
14	19 24	18 57	18 35	18 16	17 58	17 41	17 23	17 2	16 36	16 19	15 58	15 31	14 53	13 47	
15	19 25	18 57	18 35	18 16	17 59	17 42	17 23	17 2	16 36	16 19	15 58	15 31	14 53	13 46	
16	19 26	18 58	18 36	18 17	17 59	17 42	17 24	17 2	16 36	16 19	15 59	15 32	14 53	13 46	
17	19 26	18 58	18 36	18 17	18 0	17 42	17 24	17 3	16 36	16 20	15 59	15 32	14 53	13 45	
18	19 27	18 59	18 37	18 18	18 0	17 43	17 24	17 3	16 37	16 20	15 59	15 32	14 53	13 45	
19	19 28	19 0	18 37	18 18	18 1	17 43	17 25	17 4	16 37	16 20	15 59	15 32	14 53	13 45	
20	19 28	19 0	18 38	18 19	18 1	17 44	17 25	17 4	16 38	16 21	16 0	15 33	14 54	13 45	
21	19 29	19 1	18 38	18 19	18 2	17 44	17 26	17 5	16 38	16 21	16 0	15 33	14 54	13 45	
22	19 29	19 1	18 39	18 20	18 2	17 45	17 26	17 5	16 38	16 22	16 1	15 34	14 55	13 46	
23	19 30	19 2	18 39	18 20	18 3	17 45	17 27	17 6	16 39	16 22	16 1	15 34	14 55	13 47	
24	19 30	19 2	18 40	18 21	18 3	17 46	17 27	17 6	16 40	16 23	16 2	15 35	14 56	13 47	
25	19 31	19 2	18 40	18 21	18 4	17 46	17 28	17 7	16 40	16 23	16 3	15 35	14 57	13 48	
26	19 31	19 3	18 41	18 22	18 4	17 47	17 28	17 7	16 41	16 24	16 3	15 36	14 57	13 50	
27	19 31	19 3	18 41	18 22	18 5	17 47	17 29	17 8	16 41	16 25	16 4	15 37	14 58	13 51	
28	19 32	19 4	18 42	18 23	18 5	17 48	17 30	17 9	16 42	16 25	16 5	15 38	14 59	13 52	
29	19 32	19 4	18 42	18 23	18 6	17 49	17 30	17 9	16 43	16 26	16 6	15 39	15 1	13 54	
30	19 32	19 4	18 42	18 23	18 6	17 49	17 31	17 10	16 43	16 27	16 6	15 40	15 2	13 56	
31	19 32	19 5	18 43	18 24	18 7	17 50	17 31	17 11	16 44	16 28	16 7	15 41	15 3	13 58	
32	19 32	19 5	18 43	18 24	18 7	17 50	17 32	17 11	16 45	16 29	16 8	15 42	15 4	14 0	

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Jan. 0	21 12	20 49	20 30	20 14	19 58	19 43	19 27	19 8	18 44	18 29	18 10	17 46	17 13	16 20	— —
1	21 51	21 31	21 15	21 1	20 48	20 35	20 21	20 5	19 44	19 31	19 16	18 56	18 29	17 48	16 28
2	22 24	22 9	21 56	21 45	21 35	21 25	21 13	21 0	20 45	20 35	20 23	20 8	19 47	19 18	18 29
3	22 54	22 43	22 34	22 26	22 19	22 12	22 4	21 55	21 44	21 36	21 28	21 18	21 4	20 45	20 15
4	23 21	23 15	23 10	23 5	23 1	22 57	22 53	22 48	22 42	22 38	22 33	22 28	22 20	22 10	21 55
5	23 46	23 45	23 44	23 43	23 42	23 42	23 41	23 40	23 39	23 38	23 37	23 36	23 35	23 33	23 30
6	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
7	0 11	0 15	0 18	0 21	0 23	0 26	0 28	0 31	0 36	0 38	0 41	0 45	0 49	0 56	1 5
8	0 38	0 46	0 53	0 59	1 5	1 11	1 18	1 25	1 34	1 39	1 46	1 54	2 5	2 20	2 44
9	1 6	1 19	1 30	1 40	1 49	1 58	2 8	2 19	2 33	2 41	2 52	3 5	3 23	3 48	4 28
10	1 38	1 56	2 11	2 23	2 35	2 47	3 0	3 15	3 34	3 46	4 0	4 18	4 43	5 19	6 25
11	2 15	2 38	2 55	3 11	3 26	3 40	3 56	4 14	4 37	4 51	5 9	5 31	6 3	6 53	9 19
12	3 0	3 24	3 45	4 2	4 18	4 35	4 53	5 13	5 39	5 55	6 15	6 41	7 19	8 22	— —
13	3 51	4 18	4 39	4 57	5 14	5 32	5 51	6 12	6 39	6 55	7 17	7 45	8 24	9 33	— —
14	4 51	5 17	5 38	5 56	6 12	6 29	6 47	7 8	7 34	7 50	8 11	8 37	9 14	10 16	— —
15	5 58	6 21	6 40	6 56	7 11	7 26	7 42	8 0	8 24	8 38	8 56	9 18	9 49	10 37	12 23
16	7 8	7 27	7 42	7 56	8 8	8 20	8 33	8 49	9 7	9 19	9 33	9 50	10 14	10 48	11 44
17	8 20	8 34	8 44	8 54	9 3	9 12	9 21	9 32	9 45	9 53	10 3	10 16	10 31	10 53	11 27
18	9 32	9 39	9 45	9 51	9 56	10 1	10 6	10 12	10 20	10 25	10 30	10 36	10 45	10 57	11 14
19	10 42	10 44	10 45	10 46	10 47	10 48	10 49	10 50	10 51	10 52	10 53	10 55	10 57	10 59	11 3
20	11 52	11 48	11 44	11 40	11 38	11 34	11 31	11 27	11 23	11 20	11 17	11 13	11 8	11 1	10 52
21	13 2	12 51	12 42	12 34	12 27	12 21	12 14	12 5	11 55	11 49	11 41	11 32	11 21	11 4	10 41
22	14 11	13 54	13 41	13 30	13 19	13 9	12 58	12 45	12 29	12 20	12 8	11 54	11 35	11 9	10 28
23	15 18	14 57	14 40	14 26	14 12	13 58	13 44	13 28	13 7	12 55	12 39	12 20	11 54	11 16	10 8
24	16 23	15 59	15 39	15 22	15 6	14 50	14 33	14 14	13 50	13 36	13 17	12 53	12 20	11 29	9 5
25	17 24	16 58	16 36	16 18	16 1	15 44	15 26	15 5	14 39	14 23	14 2	13 35	12 58	11 55	— —
26	18 19	17 52	17 31	17 13	16 56	16 39	16 20	15 59	15 33	15 16	14 55	14 28	13 50	12 43	— —
27	19 6	18 42	18 22	18 5	17 49	17 33	17 16	16 56	16 31	16 15	15 55	15 30	14 54	13 55	— —
28	19 48	19 26	19 9	18 54	18 39	18 25	18 10	17 53	17 31	17 17	17 0	16 39	16 8	15 22	13 37
29	20 23	20 6	19 51	19 39	19 28	19 16	19 3	18 49	18 31	18 20	18 7	17 50	17 26	16 53	15 53
30	20 54	20 41	20 31	20 22	20 13	20 4	19 55	19 44	19 31	19 23	19 13	19 1	18 45	18 22	17 45
31	21 22	21 14	21 7	21 2	20 56	20 51	20 45	20 38	20 30	20 25	20 19	20 11	20 1	19 48	19 27
Febr. 1	21 48	21 45	21 42	21 40	21 38	21 36	21 34	21 31	21 28	21 26	21 24	21 21	21 17	21 12	21 4
2	22 13	22 15	22 16	22 17	22 18	22 20	22 21	22 23	22 25	22 26	22 27	22 29	22 31	22 35	22 39
3	22 39	22 45	22 51	22 55	22 59	23 4	23 9	23 15	23 22	23 26	23 31	23 38	23 46	23 58	— —
4	23 5	23 17	23 26	23 34	23 42	23 50	23 58	— —	— —	— —	— —	— —	— —	— —	0 16
5	23 35	23 51	— —	— —	— —	— —	— —	0 8	0 20	0 27	0 36	0 47	1 2	1 23	1 56
6	— —	— —	0 4	0 16	0 27	0 38	0 49	1 2	1 19	1 29	1 42	1 58	2 20	2 51	3 44
7	0 9	0 29	0 46	1 0	1 13	1 27	1 42	1 58	2 19	2 32	2 49	3 10	3 38	4 22	5 53
8	0 49	1 13	1 32	1 49	2 5	2 20	2 37	2 56	3 21	3 37	3 56	4 21	4 56	5 53	— —
9	1 36	2 2	2 23	2 41	2 58	3 15	3 34	3 55	4 21	4 37	4 59	5 27	6 6	7 14	— —
10	2 32	2 58	3 20	3 38	3 56	4 13	4 32	4 52	5 19	5 36	5 57	6 24	7 3	8 10	— —

Monduntergang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Jan. 0	6 12	6 37	6 57	7 15	7 31	7 48	8 6	8 25	8 49	9 5	9 24	9 49	10 23	11 19	— —
1	7 13	7 35	7 53	8 8	8 23	8 37	8 53	9 10	9 31	9 46	10 2	10 22	10 51	11 34	12 55
2	8 13	8 32	8 46	8 59	9 11	9 23	9 36	9 50	10 7	10 19	10 32	10 48	11 10	11 41	12 33
3	9 13	9 27	9 38	9 47	9 56	10 5	10 15	10 26	10 39	10 47	10 56	11 8	11 24	11 45	12 18
4	10 12	10 20	10 27	10 34	10 40	10 45	10 51	10 58	11 6	11 12	11 18	11 25	11 35	11 48	12 7
5	11 9	11 13	11 16	11 19	11 22	11 24	11 26	11 29	11 33	11 35	11 37	11 40	11 44	11 50	11 57
6	12 6	12 5	12 4	12 3	12 2	12 1	12 0	11 59	11 58	11 57	11 56	11 55	11 53	11 51	11 48
7	13 3	12 57	12 52	12 47	12 43	12 39	12 34	12 29	12 23	12 19	12 15	12 9	12 2	11 52	11 38
8	14 2	13 51	13 42	13 34	13 26	13 19	13 11	13 2	12 51	12 45	12 36	12 25	12 13	11 55	11 28
9	15 2	14 46	14 33	14 22	14 11	14 1	13 49	13 36	13 21	13 11	12 59	12 44	12 25	11 58	11 14
10	16 4	15 43	15 27	15 12	14 58	14 46	14 32	14 15	13 55	13 42	13 27	13 8	12 42	12 4	10 55
11	17 6	16 42	16 23	16 6	15 50	15 35	15 18	14 59	14 35	14 20	14 2	13 38	13 5	12 14	9 47
12	18 7	17 41	17 20	17 2	16 45	16 28	16 9	15 49	15 23	15 6	14 46	14 19	13 41	12 37	— —
13	19 5	18 39	18 18	17 59	17 42	17 25	17 7	16 45	16 18	16 0	15 40	15 12	14 33	13 24	— —
14	19 58	19 34	19 14	18 57	18 40	18 24	18 7	17 47	17 22	17 5	16 46	16 20	15 43	14 43	— —
15	20 44	20 24	20 7	19 52	19 38	19 24	19 9	18 52	18 31	18 17	18 0	17 38	17 9	16 23	14 40
16	21 25	21 9	20 56	20 45	20 34	20 23	20 11	19 58	19 42	19 32	19 19	19 3	18 41	18 9	17 16
17	22 1	21 51	21 43	21 35	21 28	21 21	21 14	21 5	20 54	20 47	20 39	20 29	20 15	19 56	19 27
18	22 34	22 30	22 26	22 23	22 20	22 17	22 14	22 10	22 5	22 2	21 59	21 54	21 48	21 41	21 29
19	23 6	23 8	23 9	23 10	23 11	23 12	23 13	23 14	23 16	23 17	23 18	23 19	23 21	23 23	23 27
20	23 37	23 45	23 51	23 56	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
21	— —	— —	— —	— —	0 1	0 6	0 11	0 18	0 25	0 30	0 36	0 43	0 52	1 5	1 24
22	0 10	0 23	0 34	0 43	0 52	1 1	1 11	1 21	1 34	1 43	1 53	2 6	2 22	2 46	3 24
23	0 46	1 5	1 19	1 32	1 44	1 56	2 9	2 24	2 43	2 55	3 9	3 27	3 51	4 27	5 33
24	1 26	1 49	2 7	2 23	2 38	2 52	3 8	3 27	3 50	4 5	4 22	4 44	5 16	6 6	8 28
25	2 12	2 38	2 58	3 16	3 33	3 49	4 6	4 27	4 53	5 9	5 29	5 55	6 32	7 35	— —
26	3 4	3 30	3 52	4 10	4 27	4 44	5 2	5 24	5 51	6 7	6 28	6 56	7 34	8 41	— —
27	4 0	4 26	4 47	5 5	5 22	5 38	5 56	6 17	6 42	6 58	7 18	7 44	8 21	9 20	— —
28	4 59	5 23	5 42	5 58	6 14	6 29	6 45	7 4	7 27	7 41	7 59	8 22	8 53	9 41	11 27
29	6 0	6 20	6 36	6 50	7 3	7 16	7 30	7 46	8 5	8 17	8 32	8 50	9 15	9 50	10 52
30	7 0	7 16	7 29	7 40	7 50	8 0	8 11	8 23	8 38	8 47	8 58	9 12	9 30	9 56	10 35
31	8 0	8 11	8 19	8 27	8 34	8 41	8 48	8 57	9 7	9 13	9 21	9 30	9 42	9 59	10 23
Febr. 1	8 58	9 4	9 8	9 12	9 16	9 20	9 24	9 29	9 34	9 37	9 41	9 46	9 52	10 1	10 13
2	9 55	9 56	9 57	9 57	9 57	9 58	9 58	9 59	9 59	10 0	10 0	10 1	10 1	10 2	10 3
3	10 52	10 48	10 44	10 41	10 39	10 36	10 33	10 29	10 25	10 22	10 19	10 15	10 10	10 3	9 54
4	11 50	11 40	11 33	11 26	11 19	11 14	11 8	11 0	10 51	10 46	10 39	10 30	10 20	10 5	9 43
5	12 48	12 34	12 23	12 13	12 3	11 54	11 44	11 33	11 19	11 10	11 0	10 47	10 31	10 7	9 32
6	13 48	13 29	13 14	13 1	12 49	12 37	12 24	12 9	11 51	11 39	11 25	11 8	10 45	10 12	9 16
7	14 49	14 26	14 8	13 52	13 37	13 23	13 7	12 49	12 27	12 13	11 56	11 34	11 5	10 20	8 46
8	15 50	15 24	15 4	14 46	14 29	14 13	13 56	13 35	13 10	12 54	12 34	12 9	11 33	10 35	— —
9	16 49	16 22	16 1	15 42	15 25	15 8	14 49	14 28	14 1	13 44	13 23	12 55	12 16	11 8	— —
10	17 44	17 18	16 58	16 40	16 23	16 6	15 48	15 27	15 1	14 44	14 23	13 56	13 17	12 10	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Febr. 10	2 32	2 58	3 20	3 38	3 56	4 13	4 32	4 52	5 19	5 36	5 57	6 24	7 3	8 10	— —
11	3 35	4 0	4 20	4 37	4 54	5 10	5 27	5 47	6 12	6 27	6 46	7 11	7 45	8 40	— —
12	4 45	5 7	5 24	5 39	5 53	6 6	6 21	6 38	6 59	7 12	7 28	7 48	8 15	8 55	10 9
13	5 58	6 15	6 28	6 39	6 50	7 0	7 11	7 24	7 40	7 50	8 2	8 16	8 35	9 3	9 46
14	7 13	7 23	7 31	7 38	7 45	7 52	7 59	8 7	8 17	8 23	8 30	8 39	8 51	9 7	9 30
15	8 27	8 31	8 34	8 36	8 38	8 41	8 44	8 47	8 51	8 53	8 56	9 0	9 4	9 10	9 18
16	9 40	9 37	9 35	9 33	9 31	9 30	9 28	9 26	9 24	9 22	9 20	9 18	9 16	9 12	9 8
17	10 52	10 43	10 35	10 29	10 23	10 17	10 11	10 4	9 56	9 51	9 45	9 37	9 28	9 15	8 56
18	12 2	11 48	11 35	11 25	11 15	11 6	10 56	10 44	10 30	10 22	10 11	9 58	9 41	9 18	8 43
19	13 11	12 51	12 35	12 21	12 8	11 56	11 43	11 27	11 7	10 55	10 41	10 23	9 59	9 24	8 25
20	14 17	13 53	13 34	13 18	13 2	12 47	12 31	12 12	11 49	11 35	11 17	10 54	10 23	9 35	7 49
21	15 19	14 53	14 32	14 14	13 57	13 40	13 22	13 1	12 35	12 19	11 59	11 33	10 56	9 56	— —
22	16 15	15 48	15 26	15 8	14 51	14 34	14 16	13 54	13 27	13 10	12 49	12 22	11 43	10 35	— —
23	17 4	16 38	16 18	16 0	15 43	15 27	15 10	14 49	14 23	14 8	13 47	13 20	12 43	11 39	— —
24	17 46	17 24	17 5	16 49	16 34	16 20	16 4	15 45	15 22	15 7	14 49	14 26	13 54	13 3	— —
25	18 23	18 4	17 49	17 35	17 22	17 10	16 57	16 41	16 22	16 10	15 55	15 36	15 10	14 32	13 21
26	18 55	18 40	18 29	18 18	18 8	17 59	17 48	17 37	17 22	17 12	17 1	16 47	16 28	16 2	15 17
27	19 24	19 14	19 6	18 59	18 52	18 46	18 39	18 31	18 21	18 15	18 7	17 58	17 46	17 29	17 3
28	19 50	19 45	19 41	19 38	19 34	19 31	19 28	19 24	19 19	19 16	19 12	19 8	19 2	18 54	18 42
März 1	20 15	20 15	20 15	20 15	20 15	20 16	20 16	20 16	20 16	20 16	20 16	20 16	20 17	20 17	20 18
2	20 41	20 45	20 50	20 53	20 56	21 0	21 4	21 8	21 13	21 16	21 20	21 25	21 32	21 40	21 53
3	21 7	21 16	21 24	21 32	21 39	21 45	21 52	22 0	22 11	22 17	22 25	22 34	22 47	23 5	23 32
4	21 35	21 49	22 1	22 11	22 21	22 31	22 42	22 54	23 9	23 19	23 30	23 44	— —	— —	— —
5	22 6	22 25	22 40	22 54	23 7	23 19	23 32	23 48	— —	— —	— —	— —	0 3	0 31	1 16
6	22 43	23 5	23 24	23 40	23 55	— —	— —	— —	0 8	0 20	0 35	0 54	1 21	2 0	3 14
7	23 25	23 51	— —	— —	— —	0 10	0 26	0 44	1 8	1 23	1 41	2 4	2 37	3 30	— —
8	— —	— —	0 11	0 29	0 46	1 3	1 21	1 41	2 7	2 23	2 44	3 11	3 49	4 55	— —
9	0 16	0 42	1 4	1 22	1 40	1 57	2 16	2 38	3 5	3 21	3 43	4 11	4 51	6 3	— —
10	1 14	1 40	2 1	2 19	2 37	2 53	3 11	3 32	3 58	4 14	4 35	5 2	5 39	6 42	— —
11	2 19	2 43	3 2	3 18	3 34	3 49	4 5	4 24	4 47	5 1	5 19	5 42	6 13	7 1	8 52
12	3 31	3 50	4 5	4 19	4 32	4 44	4 57	5 12	5 31	5 42	5 56	6 14	6 38	7 11	8 8
13	4 45	4 59	5 10	5 19	5 27	5 36	5 46	5 57	6 10	6 18	6 27	6 39	6 55	7 17	7 50
14	6 1	6 8	6 14	6 19	6 24	6 28	6 33	6 39	6 45	6 49	6 54	7 1	7 9	7 20	7 35
15	7 16	7 17	7 17	7 17	7 18	7 18	7 18	7 19	7 19	7 19	7 20	7 20	7 21	7 22	7 23
16	8 32	8 26	8 20	8 16	8 12	8 8	8 3	7 58	7 53	7 49	7 45	7 40	7 33	7 24	7 11
17	9 46	9 34	9 23	9 14	9 6	8 58	8 49	8 39	8 27	8 20	8 11	8 0	7 46	7 27	6 59
18	10 59	10 40	10 25	10 13	10 1	9 49	9 36	9 22	9 4	8 53	8 40	8 24	8 2	7 31	6 41
19	12 8	11 45	11 27	11 11	10 56	10 41	10 26	10 8	9 45	9 32	9 15	8 53	8 24	7 39	6 13
20	13 13	12 47	12 26	12 8	11 51	11 35	11 18	10 57	10 31	10 15	9 55	9 30	8 54	7 56	— —
21	14 12	13 45	13 23	13 4	12 46	12 29	12 11	11 49	11 22	11 5	10 44	10 17	9 37	8 28	— —
22	15 3	14 37	14 16	13 58	13 40	13 23	13 5	12 44	12 17	12 1	11 40	11 13	10 34	9 26	— —
23	15 47	15 23	15 4	14 48	14 32	14 16	13 59	13 40	13 16	13 0	12 41	12 17	11 42	10 46	— —

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Febr. 10	17 44	17 18	16 58	16 40	16 23	16 6	15 48	15 27	15 1	14 44	14 23	13 56	13 17	12 10	— —
11	18 34	18 11	17 53	17 37	17 22	17 7	16 50	16 31	16 8	15 53	15 34	15 10	14 37	13 43	— —
12	19 18	19 0	18 45	18 32	18 19	18 7	17 54	17 39	17 19	17 6	16 52	16 34	16 8	15 30	14 19
13	19 57	19 45	19 34	19 25	19 16	19 7	18 58	18 47	18 33	18 25	18 15	18 2	17 45	17 21	16 42
14	20 33	20 26	20 20	20 15	20 10	20 6	20 1	19 55	19 48	19 42	19 38	19 31	19 22	19 10	18 52
15	21 6	21 5	21 5	21 4	21 4	21 3	21 3	21 2	21 1	21 1	21 0	21 0	20 59	20 57	20 55
16	21 38	21 44	21 48	21 52	21 56	22 0	22 4	22 8	22 14	22 18	22 22	22 27	22 33	22 43	22 57
17	22 12	22 23	22 32	22 41	22 49	22 56	23 4	23 14	23 26	23 32	23 41	23 53	— —	— —	— —
18	22 47	23 4	23 18	23 29	23 40	23 52	— —	— —	— —	— —	— —	— —	0 7	0 28	1 0
19	23 26	23 48	— —	— —	— —	— —	0 4	0 18	0 35	0 46	0 59	1 16	1 38	2 11	3 7
20	— —	— —	0 5	0 20	0 34	0 48	1 3	1 21	1 43	1 57	2 14	2 35	3 5	3 51	5 36
21	0 10	0 35	0 55	1 12	1 29	1 45	2 2	2 22	2 47	3 3	3 23	3 48	4 24	5 24	— —
22	0 59	1 26	1 47	2 5	2 23	2 40	2 58	3 19	3 46	4 3	4 24	4 51	5 30	6 37	— —
23	1 53	2 20	2 41	2 59	3 16	3 33	3 52	4 13	4 39	4 55	5 16	5 43	6 21	7 24	— —
24	2 51	3 16	3 35	3 53	4 9	4 24	4 41	5 1	5 25	5 40	5 59	6 23	6 56	7 48	— —
25	3 51	4 12	4 29	4 44	4 58	5 12	5 27	5 43	6 4	6 17	6 33	6 53	7 20	8 0	9 14
26	4 51	5 8	5 22	5 34	5 45	5 56	6 8	6 22	6 38	6 48	7 1	7 17	7 37	8 6	8 53
27	5 50	6 3	6 13	6 22	6 30	6 38	6 46	6 57	7 9	7 16	7 25	7 36	7 50	8 10	8 39
28	6 49	6 56	7 2	7 8	7 13	7 18	7 23	7 29	7 36	7 41	7 46	7 52	8 0	8 12	8 28
März 1	7 47	7 49	7 51	7 53	7 55	7 56	7 58	8 0	8 2	8 3	8 5	8 7	8 9	8 13	8 18
2	8 44	8 41	8 39	8 37	8 35	8 34	8 32	8 30	8 27	8 25	8 23	8 21	8 18	8 14	8 8
3	9 41	9 33	9 27	9 21	9 16	9 12	9 7	9 0	8 52	8 48	8 42	8 36	8 27	8 15	7 58
4	10 39	10 26	10 16	10 7	9 59	9 51	9 42	9 32	9 19	9 12	9 3	8 51	8 37	8 17	7 46
5	11 37	11 20	11 6	10 54	10 43	10 32	10 20	10 6	9 49	9 39	9 26	9 10	8 49	8 20	7 32
6	12 37	12 15	11 58	11 43	11 29	11 15	11 0	10 44	10 23	10 10	9 54	9 33	9 6	8 25	7 9
7	13 36	13 11	12 52	12 35	12 19	12 3	11 46	11 26	11 2	10 47	10 28	10 3	9 30	8 36	— —
8	14 34	14 8	13 47	13 28	13 11	12 54	12 35	12 14	11 48	11 31	11 10	10 43	10 4	8 58	— —
9	15 30	15 3	14 42	14 24	14 6	13 49	13 30	13 9	12 42	12 25	12 3	11 35	10 55	9 44	— —
10	16 22	15 57	15 37	15 20	15 3	14 47	14 29	14 9	13 44	13 28	13 8	12 42	12 5	11 2	— —
11	17 8	16 47	16 30	16 15	16 1	15 47	15 32	15 15	14 53	14 39	14 22	14 0	13 30	12 43	10 56
12	17 49	17 33	17 20	17 9	16 58	16 47	16 35	16 22	16 6	15 55	15 42	15 26	15 5	14 33	13 39
13	18 26	18 16	18 8	18 1	17 54	17 47	17 40	17 31	17 21	17 14	17 6	16 56	16 43	16 25	15 57
14	19 1	18 57	18 54	18 52	18 50	18 47	18 44	18 41	18 37	18 34	18 31	18 28	18 23	18 16	18 6
15	19 34	19 37	19 39	19 41	19 43	19 45	19 47	19 49	19 52	19 54	19 56	19 58	20 2	20 6	20 13
16	20 8	20 17	20 25	20 31	20 37	20 44	20 51	20 58	21 7	21 13	21 20	21 28	21 40	21 56	22 20
17	20 44	20 59	21 11	21 22	21 32	21 42	21 53	22 5	22 21	22 31	22 42	22 56	23 16	23 44	— —
18	21 23	21 43	22 0	22 14	22 28	22 41	22 55	23 11	23 32	23 45	— —	— —	— —	— —	0 32
19	22 6	22 30	22 50	23 7	23 23	23 39	23 56	— —	— —	— —	0 1	0 22	0 49	1 32	2 58
20	22 55	23 21	23 43	— —	— —	— —	— —	0 15	0 40	0 55	1 14	1 39	2 14	3 11	— —
21	23 48	— —	— —	0 1	0 18	0 35	0 54	1 15	1 42	1 59	2 20	2 47	3 26	4 35	— —
22	— —	0 15	0 37	0 55	1 13	1 30	1 49	2 10	2 37	2 54	3 15	3 43	4 22	5 30	— —
23	0 45	1 11	1 31	1 49	2 6	2 22	2 40	3 0	3 25	3 41	4 1	4 26	5 1	5 58	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite −40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
März 23	15 47	15 23	15 4	14 48	14 32	14 16	13 59	13 40	13 16	13 0	12 41	12 17	11 42	10 46	— —
24	16 25	16 5	15 48	15 34	15 20	15 7	14 53	14 36	14 15	14 2	13 46	13 26	12 58	12 15	10 48
25	16 58	16 42	16 29	16 17	16 6	15 56	15 45	15 31	15 15	15 5	14 52	14 36	14 15	13 45	12 53
26	17 27	17 16	17 7	16 58	16 50	16 43	16 35	16 25	16 14	16 7	15 58	15 47	15 33	15 12	14 41
27	17 54	17 47	17 42	17 37	17 33	17 29	17 24	17 19	17 12	17 8	17 3	16 57	16 49	16 38	16 21
28	18 19	18 18	18 16	18 15	18 14	18 13	18 12	18 11	18 9	18 8	18 7	18 6	18 4	18 2	17 58
29	18 44	18 47	18 50	18 53	18 55	18 57	19 0	19 3	19 7	19 9	19 12	19 15	19 19	19 25	19 34
30	19 10	19 18	19 25	19 31	19 37	19 42	19 48	19 55	20 4	20 10	20 16	20 24	20 35	20 50	21 12
31	19 37	19 50	20 1	20 10	20 19	20 28	20 38	20 48	21 2	21 11	21 21	21 34	21 51	22 16	22 55
April 1	20 7	20 24	20 39	20 51	21 3	21 15	21 28	21 43	22 1	22 13	22 27	22 44	23 9	23 44	— —
2	20 41	21 2	21 20	21 35	21 50	22 4	22 20	22 38	23 0	23 14	23 32	23 54	— —	— —	0 49
3	21 20	21 45	22 5	22 23	22 39	22 55	23 12	23 33	23 59	— —	— —	— —	0 26	1 15	3 24
4	22 6	22 33	22 55	23 14	23 31	23 48	— —	— —	— —	0 15	0 35	1 2	1 39	2 42	— —
5	23 0	23 27	23 49	— —	— —	— —	0 7	0 29	0 56	1 13	1 35	2 3	2 44	3 57	— —
6	— —	— —	— —	0 7	0 25	0 42	1 1	1 23	1 50	2 7	2 29	2 56	3 36	4 47	— —
7	0 1	0 26	0 46	1 4	1 20	1 36	1 53	2 14	2 39	2 54	3 14	3 39	4 14	5 11	— —
8	1 8	1 29	1 47	2 2	2 16	2 30	2 45	3 2	3 23	3 36	3 53	4 13	4 41	5 22	6 40
9	2 19	2 36	2 49	3 0	3 11	3 22	3 34	3 47	4 3	4 13	4 25	4 40	5 0	5 28	6 13
10	3 32	3 43	3 52	3 59	4 6	4 13	4 21	4 29	4 39	4 45	4 53	5 2	5 15	5 31	5 55
11	4 48	4 52	4 55	4 58	5 1	5 3	5 6	5 9	5 13	5 15	5 18	5 22	5 27	5 33	5 42
12	6 4	6 1	5 58	5 56	5 54	5 53	5 51	5 49	5 46	5 45	5 43	5 41	5 38	5 34	5 29
13	7 20	7 10	7 3	6 56	6 49	6 43	6 36	6 29	6 20	6 15	6 8	6 0	5 50	5 36	5 16
14	8 36	8 20	8 7	7 56	7 45	7 35	7 24	7 12	6 57	6 48	6 36	6 23	6 4	5 39	5 0
15	9 50	9 29	9 11	8 57	8 43	8 29	8 15	7 58	7 37	7 24	7 9	6 49	6 23	5 45	4 36
16	11 0	10 35	10 14	9 57	9 40	9 24	9 7	8 47	8 22	8 7	7 48	7 23	6 50	5 56	— —
17	12 4	11 36	11 15	10 56	10 38	10 21	10 2	9 40	9 13	8 57	8 35	8 7	7 28	6 20	— —
18	13 0	12 32	12 11	11 52	11 34	11 17	10 58	10 36	10 9	9 52	9 30	9 2	8 22	7 9	— —
19	13 47	13 22	13 2	12 44	12 27	12 11	11 54	11 33	11 7	10 51	10 31	10 5	9 28	8 25	— —
20	14 27	14 5	13 48	13 32	13 17	13 3	12 48	12 30	12 8	11 54	11 36	11 14	10 43	9 55	7 55
21	15 2	14 44	14 30	14 17	14 5	13 53	13 40	13 26	13 8	12 57	12 43	12 25	12 1	11 26	10 23
22	15 32	15 18	15 8	14 58	14 49	14 41	14 32	14 21	14 7	13 59	13 49	13 36	13 20	12 56	12 17
23	15 59	15 50	15 44	15 38	15 32	15 27	15 21	15 14	15 6	15 1	14 54	14 47	14 36	14 22	14 1
24	16 24	16 21	16 18	16 16	16 13	16 11	16 9	16 6	16 3	16 1	15 59	15 56	15 52	15 47	15 39
25	16 49	16 50	16 52	16 53	16 54	16 56	16 58	16 59	17 0	17 1	17 3	17 5	17 7	17 11	17 15
26	17 14	17 20	17 26	17 31	17 36	17 40	17 45	17 51	17 58	18 3	18 8	18 14	18 23	18 35	18 53
27	17 40	17 51	18 1	18 10	18 18	18 25	18 34	18 44	18 56	19 3	19 13	19 24	19 40	20 1	20 35
28	18 9	18 25	18 39	18 50	19 1	19 12	19 24	19 38	19 55	20 6	20 19	20 35	20 57	21 30	22 25
29	18 41	19 2	19 19	19 34	19 48	20 1	20 15	20 33	20 55	21 8	21 25	21 46	22 16	23 1	— —
30	19 19	19 43	20 3	20 20	20 36	20 52	21 9	21 29	21 54	22 10	22 30	22 55	23 32	— —	0 41
Mai 1	20 3	20 29	20 51	21 10	21 27	21 44	22 3	22 25	22 52	23 9	23 31	23 59	— —	0 32	— —
2	20 53	21 21	21 43	22 2	22 20	22 37	22 56	23 18	23 46	— —	— —	— —	0 40	1 54	— —
3	21 51	22 17	22 38	22 57	23 14	23 31	23 49	— —	— —	0 2	0 26	0 55	1 36	2 52	— —

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
März 23	0 45	1 11	1 31	1 49	2 6	2 22	2 40	3 0	3 25	3 41	4 1	4 26	5 1	5 58	— —
24	1 44	2 7	2 25	2 41	2 56	3 10	3 26	3 44	4 6	4 20	4 37	4 58	5 28	6 12	7 40
25	2 44	3 3	3 18	3 31	3 43	3 55	4 8	4 23	4 41	4 52	5 6	5 23	5 46	6 18	7 13
26	3 43	3 57	4 9	4 19	4 28	4 37	4 47	4 58	5 12	5 20	5 30	5 43	5 59	6 22	6 56
27	4 42	4 51	4 59	5 5	5 11	5 17	5 24	5 31	5 40	5 45	5 52	6 0	6 10	6 24	6 44
28	5 40	5 44	5 47	5 50	5 53	5 56	5 59	6 2	6 6	6 8	6 11	6 14	6 19	6 25	6 33
29	6 37	6 36	6 35	6 35	6 34	6 33	6 33	6 32	6 31	6 30	6 29	6 28	6 27	6 25	6 23
30	7 34	7 28	7 23	7 19	7 15	7 11	7 7	7 2	6 55	6 52	6 48	6 42	6 35	6 26	6 12
31	8 32	8 21	8 12	8 4	7 56	7 49	7 42	7 33	7 22	7 15	7 7	6 57	6 44	6 27	6 1
April 1	9 30	9 14	9 2	8 50	8 40	8 30	8 19	8 6	7 50	7 41	7 29	7 14	6 56	6 29	5 46
2	10 29	10 9	9 53	9 39	9 25	9 12	8 58	8 42	8 22	8 9	7 54	7 35	7 10	6 32	5 26
3	11 29	11 4	10 45	10 29	10 13	9 58	9 41	9 22	8 59	8 44	8 25	8 2	7 30	6 40	4 28
4	12 26	12 0	11 39	11 21	11 4	10 47	10 28	10 7	9 41	9 25	9 4	8 37	7 59	6 55	— —
5	13 22	12 55	12 33	12 14	11 56	11 39	11 20	10 58	10 31	10 14	9 52	9 23	8 42	7 29	— —
6	14 13	13 47	13 26	13 8	12 51	12 34	12 15	11 54	11 28	11 11	10 50	10 22	9 42	8 32	— —
7	15 0	14 37	14 18	14 2	13 46	13 31	13 15	12 56	12 32	12 17	11 58	11 33	10 59	10 4	— —
8	15 42	15 23	15 8	14 55	14 42	14 30	14 17	14 1	13 41	13 29	13 14	12 54	12 28	11 49	10 34
9	16 20	16 6	15 56	15 46	15 37	15 28	15 18	15 7	14 53	14 45	14 34	14 21	14 3	13 38	12 57
10	16 54	16 47	16 42	16 37	16 32	16 27	16 21	16 15	16 8	16 3	15 57	15 50	15 41	15 28	15 9
11	17 28	17 27	17 27	17 26	17 26	17 25	17 25	17 24	17 23	17 23	17 22	17 22	17 20	17 19	17 17
12	18 1	18 7	18 12	18 16	18 20	18 24	18 29	18 34	18 39	18 43	18 48	18 53	19 0	19 10	19 25
13	18 37	18 49	18 59	19 8	19 16	19 24	19 33	19 43	19 56	20 4	20 13	20 25	20 41	21 3	21 38
14	19 14	19 33	19 47	20 0	20 13	20 25	20 38	20 53	21 11	21 23	21 37	21 55	22 19	22 56	— —
15	19 57	20 20	20 39	20 55	21 10	21 25	21 41	22 0	22 24	22 38	22 56	23 20	23 52	— —	0 2
16	20 45	21 12	21 33	21 51	22 8	22 25	22 43	23 4	23 31	23 48	— —	— —	— —	0 44	— —
17	21 39	22 6	22 28	22 47	23 5	23 23	23 42	— —	— —	— —	0 9	0 35	1 15	2 22	— —
18	22 36	23 3	23 24	23 43	— —	— —	— —	0 3	0 31	0 48	1 10	1 38	2 19	3 32	— —
19	23 36	— —	— —	— —	0 0	0 17	0 35	0 56	1 23	1 39	2 0	2 27	3 5	4 8	— —
20	— —	0 1	0 20	0 37	0 53	1 8	1 24	1 43	2 7	2 22	2 40	3 3	3 35	4 25	6 26
21	0 37	0 57	1 13	1 28	1 41	1 54	2 8	2 24	2 44	2 56	3 11	3 30	3 55	4 32	5 37
22	1 37	1 53	2 5	2 17	2 28	2 37	2 48	3 1	3 16	3 26	3 37	3 51	4 10	4 36	5 16
23	2 35	2 47	2 55	3 3	3 11	3 18	3 26	3 34	3 44	3 51	3 59	4 8	4 20	4 37	5 2
24	3 33	3 39	3 44	3 48	3 52	3 56	4 0	4 5	4 10	4 14	4 18	4 23	4 29	4 38	4 50
25	4 31	4 31	4 32	4 33	4 33	4 34	4 34	4 35	4 35	4 36	4 36	4 37	4 37	4 38	4 39
26	5 28	5 24	5 20	5 17	5 14	5 11	5 8	5 4	5 0	4 57	4 54	4 50	4 45	4 38	4 28
27	6 26	6 16	6 8	6 2	5 56	5 49	5 42	5 35	5 26	5 20	5 13	5 4	4 53	4 39	4 17
28	7 24	7 10	6 58	6 48	6 38	6 29	6 19	6 7	5 53	5 44	5 34	5 21	5 4	4 39	4 2
29	8 24	8 4	7 49	7 36	7 24	7 11	6 57	6 42	6 23	6 12	5 58	5 40	5 16	4 42	3 43
30	9 23	9 0	8 41	8 25	8 10	7 55	7 39	7 21	6 58	6 44	6 27	6 4	5 34	4 47	3 4
Mai 1	10 22	9 56	9 35	9 17	9 0	8 43	8 25	8 5	7 39	7 23	7 2	6 36	5 59	4 58	— —
2	11 18	10 50	10 29	10 10	9 52	9 34	9 15	8 53	8 26	8 8	7 46	7 18	6 37	5 22	— —
3	12 10	11 43	11 22	11 3	10 46	10 28	10 9	9 47	9 20	9 2	8 40	8 12	7 30	6 15	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Mai 3	21 51	22 17	22 38	22 57	23 14	23 31	23 49	— —	— —	0 2	0 26	0 55	1 36	2 52	— —
4	22 54	23 17	23 36	23 53	— —	— —	— —	0 10	0 36	0 52	1 13	1 40	2 18	3 22	— —
5	— —	— —	— —	— —	0 8	0 23	0 39	0 58	1 21	1 35	1 53	2 16	2 47	3 35	5 23
6	0 1	0 20	0 36	0 49	1 1	1 14	1 27	1 42	2 1	2 12	2 26	2 44	3 7	3 41	4 37
7	1 12	1 25	1 36	1 46	1 55	2 3	2 12	2 23	2 36	2 44	2 54	3 6	3 22	3 44	4 17
8	2 24	2 31	2 37	2 42	2 47	2 52	2 57	3 3	3 10	3 14	3 19	3 26	3 34	3 45	4 2
9	3 37	3 38	3 38	3 39	3 39	3 40	3 40	3 41	3 42	3 42	3 43	3 44	3 45	3 47	3 48
10	4 52	4 46	4 41	4 37	4 33	4 29	4 25	4 20	4 15	4 11	4 7	4 2	3 56	3 48	3 35
11	6 8	5 55	5 45	5 36	5 27	5 19	5 11	5 1	4 49	4 42	4 33	4 22	4 8	3 49	3 21
12	7 24	7 5	6 50	6 37	6 25	6 12	5 59	5 45	5 27	5 16	5 3	4 46	4 24	3 52	3 1
13	8 38	8 14	7 55	7 38	7 23	7 8	6 52	6 33	6 10	5 56	5 38	5 16	4 46	3 59	2 22
14	9 47	9 20	8 58	8 40	8 22	8 5	7 47	7 26	6 59	6 43	6 22	5 56	5 17	4 15	— —
15	10 49	10 21	9 59	9 39	9 21	9 3	8 44	8 22	7 54	7 37	7 15	6 46	6 5	4 50	— —
16	11 41	11 15	10 54	10 35	10 18	10 1	9 43	9 21	8 54	8 38	8 16	7 48	7 9	5 58	— —
17	12 26	12 2	11 43	11 27	11 11	10 55	10 39	10 20	9 56	9 41	9 22	8 57	8 23	7 28	— —
18	13 3	12 44	12 28	12 14	12 0	11 47	11 34	11 18	10 58	10 45	10 29	10 10	9 43	9 2	7 43
19	13 34	13 20	13 8	12 57	12 47	12 37	12 26	12 13	11 58	11 49	11 37	11 23	11 3	10 35	9 48
20	14 3	13 53	13 45	13 37	13 30	13 24	13 17	13 8	12 58	12 51	12 43	12 34	12 21	12 3	11 36
21	14 28	14 23	14 19	14 16	14 13	14 9	14 5	14 1	13 56	13 53	13 49	13 44	13 38	13 29	13 17
22	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53	14 53
23	15 18	15 23	15 27	15 30	15 33	15 37	15 41	15 45	15 50	15 53	15 57	16 2	16 9	16 17	16 30
24	15 43	15 53	16 2	16 9	16 16	16 22	16 29	16 38	16 48	16 55	17 3	17 12	17 25	17 43	18 11
25	16 11	16 26	16 38	16 49	16 59	17 9	17 20	17 32	17 47	17 57	18 9	18 23	18 43	19 12	19 59
26	16 42	17 1	17 17	17 31	17 44	17 57	18 11	18 27	18 47	19 0	19 16	19 35	20 2	20 43	22 4
27	17 18	17 42	18 0	18 17	18 33	18 48	19 4	19 23	19 48	20 3	20 22	20 46	21 21	22 17	— —
28	18 0	18 27	18 48	19 6	19 23	19 40	19 58	20 20	20 47	21 3	21 25	21 53	22 33	23 45	— —
29	18 49	19 17	19 39	19 58	20 16	20 34	20 53	21 15	21 43	22 0	22 23	22 52	23 35	— —	— —
30	19 45	20 12	20 34	20 53	21 10	21 27	21 46	22 8	22 35	22 52	23 14	23 42	— —	0 54	— —
31	20 46	21 11	21 31	21 48	22 4	22 20	22 37	22 57	23 21	23 36	23 56	— —	0 22	1 32	— —
Juni 1	21 52	22 13	22 29	22 44	22 58	23 11	23 25	23 42	— —	— —	— —	0 20	0 54	1 47	— —
2	23 0	23 16	23 28	23 39	23 49	23 59	— —	— —	0 2	0 14	0 30	0 50	1 16	1 54	3 3
3	— —	— —	— —	— —	— —	— —	0 10	0 23	0 38	0 47	0 59	1 13	1 31	1 57	2 38
4	0 9	0 19	0 27	0 34	0 41	0 47	0 53	1 1	1 11	1 17	1 24	1 32	1 43	1 59	2 21
5	1 20	1 24	1 26	1 29	1 31	1 33	1 36	1 39	1 42	1 44	1 47	1 50	1 54	1 59	2 8
6	2 32	2 29	2 26	2 24	2 22	2 20	2 18	2 16	2 13	2 12	2 10	2 7	2 4	2 0	1 55
7	3 45	3 35	3 28	3 21	3 14	3 8	3 2	2 54	2 45	2 39	2 33	2 25	2 15	2 1	1 41
8	4 59	4 43	4 30	4 19	4 8	3 58	3 47	3 35	3 20	3 11	3 0	2 46	2 28	2 3	1 24
9	6 13	5 52	5 34	5 20	5 6	4 52	4 38	4 21	4 0	3 47	3 31	3 12	2 46	2 7	0 58
10	7 25	6 59	6 39	6 21	6 4	5 48	5 31	5 10	4 45	4 30	4 11	3 46	3 11	2 17	— —
11	8 31	8 4	7 41	7 22	7 4	6 46	6 27	6 6	5 38	5 21	4 59	4 31	3 50	2 40	— —
12	9 30	9 2	8 40	8 21	8 3	7 45	7 26	7 4	6 36	6 19	5 57	5 28	4 47	3 31	— —
13	10 19	9 54	9 34	9 16	8 59	8 43	8 26	8 5	7 39	7 23	7 2	6 36	5 59	4 55	— —

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Mai 3	12 10	11 43	11 22	11 3	10 46	10 28	10 9	9 47	9 20	9 2	8 40	8 12	7 30	6 15	— —
4	12 58	12 33	12 13	11 56	11 39	11 23	11 6	10 45	10 20	10 4	9 44	9 18	8 40	7 37	— —
5	13 40	13 19	13 2	12 47	12 33	12 19	12 4	11 47	11 25	11 12	10 55	10 33	10 3	9 17	7 32
6	14 18	14 2	13 49	13 38	13 27	13 16	13 4	12 51	12 34	12 24	12 11	11 55	11 34	11 2	10 9
7	14 52	14 42	14 33	14 26	14 19	14 12	14 5	13 56	13 45	13 39	13 31	13 21	13 7	12 49	12 20
8	15 24	15 20	15 17	15 14	15 11	15 9	15 6	15 2	14 58	14 55	14 52	14 48	14 43	14 36	14 25
9	15 56	15 59	16 1	16 3	16 5	16 6	16 8	16 10	16 12	16 14	16 16	16 18	16 21	16 24	16 31
10	16 30	16 39	16 46	16 53	16 59	17 4	17 10	17 18	17 28	17 33	17 40	17 49	18 0	18 15	18 39
11	17 6	17 21	17 33	17 44	17 54	18 4	18 15	18 28	18 44	18 53	19 5	19 20	19 40	20 9	20 57
12	17 46	18 7	18 24	18 38	18 52	19 6	19 21	19 38	19 59	20 13	20 29	20 49	21 18	22 3	23 37
13	18 32	18 57	19 17	19 35	19 51	20 8	20 25	20 45	21 11	21 27	21 47	22 13	22 50	23 51	— —
14	19 24	19 52	20 14	20 33	20 51	21 8	21 27	21 49	22 17	22 34	22 56	23 25	— —	— —	— —
15	20 22	20 50	21 12	21 31	21 49	22 6	22 25	22 47	23 15	23 31	23 53	— —	0 6	1 20	— —
16	21 23	21 49	22 9	22 27	22 44	23 0	23 17	23 38	— —	— —	— —	0 22	1 2	2 13	— —
17	22 25	22 48	23 5	23 21	23 36	23 50	— —	— —	0 3	0 19	0 39	1 4	1 39	2 35	— —
18	23 27	23 45	23 59	— —	— —	— —	0 5	0 23	0 44	0 57	1 14	1 35	2 3	2 46	4 6
19	— —	— —	— —	0 12	0 24	0 35	0 47	1 1	1 19	1 29	1 42	1 58	2 19	2 50	3 39
20	0 27	0 40	0 50	1 0	1 9	1 17	1 26	1 36	1 48	1 56	2 5	2 16	2 31	2 51	3 22
21	1 26	1 34	1 40	1 46	1 51	1 56	2 1	2 7	2 15	2 19	2 25	2 32	2 40	2 52	3 9
22	2 23	2 26	2 28	2 30	2 32	2 34	2 36	2 38	2 40	2 41	2 43	2 45	2 48	2 52	2 57
23	3 20	3 18	3 16	3 14	3 12	3 11	3 9	3 7	3 4	3 3	3 1	2 59	2 56	2 52	2 46
24	4 18	4 10	4 4	3 59	3 54	3 48	3 43	3 37	3 29	3 25	3 19	3 12	3 4	2 52	2 34
25	5 17	5 4	4 53	4 44	4 36	4 28	4 19	4 8	3 56	3 49	3 39	3 27	3 13	2 52	2 21
26	6 16	5 58	5 44	5 32	5 20	5 9	4 57	4 42	4 25	4 15	4 2	3 45	3 24	2 53	2 3
27	7 16	6 54	6 37	6 21	6 6	5 53	5 38	5 20	4 59	4 46	4 29	4 8	3 39	2 57	1 34
28	8 16	7 50	7 30	7 13	6 56	6 40	6 23	6 2	5 37	5 21	5 2	4 37	4 1	3 4	— —
29	9 14	8 47	8 25	8 6	7 48	7 31	7 13	6 50	6 22	6 5	5 43	5 15	4 35	3 22	— —
30	10 9	9 41	9 19	9 0	8 42	8 24	8 5	7 43	7 15	6 58	6 35	6 5	5 23	4 4	— —
31	10 57	10 31	10 11	9 53	9 36	9 19	9 1	8 40	8 13	7 56	7 35	7 8	6 28	5 19	— —
Juni 1	11 41	11 18	11 0	10 45	10 30	10 15	9 59	9 40	9 17	9 2	8 44	8 21	7 48	6 55	— —
2	12 19	12 1	11 47	11 34	11 22	11 10	10 58	10 43	10 24	10 12	9 58	9 40	9 16	8 39	7 33
3	12 54	12 41	12 31	12 22	12 14	12 6	11 57	11 46	11 33	11 25	11 15	11 3	10 47	10 23	9 47
4	13 25	13 19	13 14	13 9	13 4	13 0	12 56	12 50	12 43	12 39	12 34	12 27	12 19	12 8	11 51
5	13 56	13 56	13 56	13 55	13 55	13 55	13 55	13 54	13 54	13 53	13 53	13 53	13 52	13 51	13 50
6	14 27	14 33	14 38	14 43	14 47	14 51	14 55	15 0	15 6	15 9	15 14	15 20	15 27	15 37	15 53
7	15 1	15 13	15 23	15 32	15 40	15 48	15 57	16 7	16 20	16 28	16 37	16 49	17 4	17 27	18 2
8	15 37	15 56	16 10	16 23	16 35	16 47	17 0	17 15	17 34	17 46	18 0	18 18	18 42	19 19	20 25
9	16 20	16 43	17 2	17 18	17 33	17 48	18 5	18 24	18 47	19 2	19 21	19 44	20 17	21 11	— —
10	17 9	17 36	17 57	18 16	18 33	18 50	19 8	19 30	19 57	20 14	20 35	21 3	21 43	22 53	— —
11	18 5	18 33	18 55	19 15	19 33	19 51	20 10	20 32	21 0	21 17	21 40	22 9	22 50	— —	— —
12	19 5	19 33	19 54	20 13	20 31	20 48	21 6	21 27	21 54	22 11	22 32	22 59	23 37	0 6	— —
13	20 9	20 33	20 52	21 9	21 25	21 40	21 57	22 16	22 39	22 54	23 12	23 35	— —	0 41	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Juni 13	10 19	9 54	9 34	9 16	8 59	8 43	8 26	8 5	7 39	7 23	7 2	6 36	5 59	4 55	— —
14	11 0	10 39	10 21	10 6	9 51	9 37	9 22	9 4	8 42	8 28	8 11	7 49	7 19	6 31	4 38
15	11 35	11 18	11 4	10 52	10 40	10 29	10 17	10 3	9 45	9 34	9 21	9 4	8 41	8 7	7 9
16	12 5	11 53	11 43	11 34	11 25	11 17	11 8	10 59	10 46	10 39	10 29	10 17	10 2	9 40	9 5
17	12 32	12 25	12 19	12 14	12 9	12 4	11 59	11 53	11 46	11 41	11 36	11 29	11 20	11 8	10 49
18	12 57	12 55	12 53	12 51	12 50	12 49	12 47	12 45	12 44	12 43	12 41	12 39	12 37	12 33	12 28
19	13 21	13 24	13 27	13 29	13 31	13 33	13 35	13 38	13 41	13 43	13 45	13 48	13 52	13 57	14 5
20	13 46	13 54	14 1	14 7	14 12	14 17	14 23	14 30	14 39	14 44	14 50	14 58	15 8	15 22	15 44
21	14 13	14 26	14 36	14 46	14 55	15 3	15 12	15 23	15 37	15 46	15 56	16 9	16 25	16 50	17 28
22	14 43	15 0	15 15	15 27	15 39	15 51	16 4	16 18	16 37	16 48	17 2	17 20	17 44	18 20	19 25
23	15 17	15 39	15 56	16 12	16 27	16 41	16 57	17 15	17 37	17 52	18 10	18 32	19 4	19 54	— —
24	15 56	16 22	16 42	17 0	17 17	17 33	17 51	18 12	18 38	18 54	19 15	19 42	20 20	21 27	— —
25	16 43	17 11	17 33	17 52	18 10	18 27	18 46	19 8	19 36	19 54	20 16	20 45	21 28	22 46	— —
26	17 38	18 5	18 27	18 46	19 4	19 22	19 41	20 3	20 31	20 48	21 10	21 39	22 21	23 36	— —
27	18 38	19 4	19 25	19 43	20 0	20 16	20 33	20 54	21 20	21 36	21 56	22 22	22 58	23 57	— —
28	19 44	20 6	20 24	20 39	20 54	21 8	21 23	21 41	22 3	22 16	22 33	22 54	23 23	— —	— —
29	20 52	21 9	21 23	21 35	21 47	21 58	22 10	22 24	22 41	22 51	23 4	23 19	23 40	0 6	1 30
30	22 1	22 13	22 22	22 30	22 38	22 46	22 54	23 3	23 14	23 21	23 30	23 40	23 53	0 10	0 58
Juli 1	23 11	23 16	23 21	23 24	23 28	23 32	23 36	23 40	23 45	23 49	23 53	23 58	— —	0 12	0 39
2	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	0 4	0 12	0 24
3	0 20	0 20	0 19	0 18	0 18	0 17	0 17	0 16	0 16	0 15	0 15	0 14	0 13	0 12	{0 12 / 23 58
4	1 31	1 24	1 18	1 13	1 8	1 3	0 58	0 53	0 46	0 42	0 37	0 31	0 24	0 13	23 44
5	2 43	2 29	2 18	2 9	2 0	1 51	1 42	1 32	1 19	1 11	1 2	0 50	0 35	0 14	23 23
6	3 55	3 35	3 20	3 7	2 54	2 42	2 29	2 14	1 55	1 44	1 30	1 13	0 50	0 17	22 41
7	5 6	4 42	4 23	4 6	3 50	3 35	3 19	3 0	2 37	2 23	2 5	1 42	1 11	0 23	— —
8	6 14	5 47	5 25	5 6	4 49	4 32	4 14	3 52	3 25	3 9	2 48	2 21	1 43	0 39	— —
9	7 16	6 48	6 25	6 6	5 48	5 30	5 11	4 49	4 21	4 4	3 41	3 12	2 30	1 15	— —
10	8 9	7 43	7 21	7 3	6 45	6 28	6 10	5 48	5 21	5 4	4 43	4 16	3 36	2 25	— —
11	8 54	8 31	8 12	7 56	7 40	7 25	7 8	6 49	6 25	6 10	5 51	5 27	4 53	3 59	— —
12	9 32	9 13	8 57	8 44	8 31	8 18	8 5	7 49	7 29	7 17	7 2	6 42	6 16	5 37	4 21
13	10 4	9 50	9 38	9 28	9 18	9 9	8 59	8 47	8 32	8 23	8 12	7 58	7 39	7 12	6 28
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15	10 59	10 55	10 51	10 48	10 45	10 43	10 40	10 36	10 32	10 29	10 26	10 23	10 17	10 11	10 0
16	11 24	11 24	11 25	11 26	11 26	11 27	11 28	11 29	11 30	11 30	11 31	11 32	11 34	11 36	11 38
17	11 48	11 54	11 59	12 3	12 7	12 12	12 17	12 22	12 27	12 31	12 36	12 42	12 50	13 0	13 16
18	12 14	12 25	12 34	12 42	12 50	12 57	13 5	13 14	13 26	13 33	13 41	13 52	14 6	14 26	14 57
19	12 42	12 58	13 11	13 22	13 33	13 43	13 55	14 8	14 24	14 34	14 47	15 3	15 24	15 55	16 47
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22	14 35	15 2	15 23	15 42	16 0	16 17	16 35	16 57	17 24	17 41	18 3	18 32	19 13	20 28	— —
23	15 27	15 55	16 17	16 36	16 54	17 12	17 31	17 53	18 21	18 39	19 2	19 31	20 13	21 32	— —
24	16 26	16 53	17 14	17 32	17 50	18 7	18 25	18 47	19 13	19 30	19 51	20 18	20 57	22 3	— —

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Juni 13	20 9	20 33	20 52	21 9	21 25	21 40	21 57	22 16	22 39	22 54	23 12	23 35	— —	0 41	— —
14	21 13	21 33	21 49	22 3	22 16	22 29	22 42	22 58	23 17	23 29	23 44	— —	0 7	0 56	2 50
15	22 15	22 30	22 42	22 53	23 3	23 13	23 23	23 35	23 49	23 58	— —	0 2	0 27	1 2	2 2
16	23 15	23 25	23 33	23 40	23 47	23 53	— —	— —	— —	— —	0 9	0 23	0 40	1 5	1 42
17	— —	— —	— —	— —	— —	— —	0 0	0 8	0 18	0 24	0 31	0 39	0 50	1 5	1 28
18	0 14	0 18	0 22	0 26	0 29	0 32	0 35	0 39	0 44	0 46	0 49	0 53	0 59	1 6	1 15
19	1 11	1 11	1 10	1 10	1 10	1 9	1 9	1 9	1 8	1 8	1 7	1 7	1 6	1 5	1 4
20	2 9	2 3	1 58	1 54	1 50	1 47	1 43	1 38	1 32	1 29	1 25	1 20	1 14	1 5	0 52
21	3 7	2 56	2 47	2 39	2 32	2 25	2 18	2 9	1 58	1 52	1 44	1 34	1 22	1 5	0 39
22	4 6	3 50	3 37	3 26	3 15	3 5	2 55	2 42	2 26	2 16	2 5	1 51	1 32	1 6	0 24
23	5 6	4 45	4 29	4 15	4 1	3 48	3 34	3 18	2 58	2 46	2 30	2 11	1 46	1 8	0 1
24	6 6	5 42	5 23	5 6	4 50	4 34	4 18	3 59	3 35	3 20	3 1	2 37	2 5	1 13	— —
25	7 6	6 39	6 18	5 59	5 41	5 24	5 6	4 44	4 18	4 2	3 40	3 12	2 33	1 27	— —
26	8 3	7 35	7 13	6 54	6 36	6 18	5 59	5 36	5 8	4 51	4 28	3 59	3 16	1 58	— —
27	8 54	8 28	8 6	7 48	7 30	7 13	6 55	6 33	6 5	5 48	5 26	4 58	4 17	3 2	— —
28	9 40	9 17	8 58	8 41	8 25	8 10	7 53	7 33	7 9	6 54	6 34	6 9	5 34	4 35	— —
29	10 21	10 2	9 46	9 32	9 19	9 6	8 52	8 36	8 16	8 4	7 48	7 28	7 1	6 19	4 58
30	10 57	10 43	10 31	10 21	10 11	10 2	9 52	9 40	9 25	9 16	9 4	8 50	8 31	8 4	7 20
Juli 1	11 29	11 20	11 14	11 8	11 2	10 56	10 50	10 43	10 34	10 28	10 22	10 14	10 3	9 48	9 26
2	11 59	11 57	11 55	11 54	11 52	11 50	11 48	11 46	11 44	11 42	11 40	11 38	11 35	11 31	11 25
3	12 29	12 33	12 36	12 39	12 42	12 44	12 47	12 50	12 54	12 56	12 59	13 3	13 7	13 14	13 23
4	13 1	13 11	13 19	13 26	13 33	13 40	13 47	13 55	14 5	14 11	14 19	14 29	14 41	14 59	15 26
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7	14 59	15 24	15 44	16 2	16 19	16 35	16 52	17 13	17 39	17 55	18 15	18 42	19 18	20 21	— —
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13	21 2	21 14	21 24	21 32	21 40	21 48	21 56	22 6	22 18	22 26	22 34	22 45	22 58	23 17	{ 0 2 / 23 46
14	22 2	22 8	22 14	22 19	22 23	22 28	22 33	22 39	22 45	22 49	22 54	23 0	23 7	23 18	23 33
15	23 0	23 2	23 3	23 4	23 5	23 6	23 7	23 9	23 10	23 11	23 12	23 14	23 15	23 18	23 21
16	23 58	23 54	23 51	23 49	23 46	23 44	23 42	23 39	23 36	23 33	23 30	23 27	23 23	23 17	23 9
17	— —	— —	— —	— —	— —	— —	— —	— —	— —	23 54	23 48	23 41	23 31	23 17	22 57
18	0 55	0 47	0 39	0 33	0 27	0 22	0 16	0 9	0 0	— —	— —	23 56	23 40	23 17	22 43
19	1 54	1 40	1 29	1 19	1 10	1 1	0 51	0 40	0 27	0 18	0 8	— —	23 52	23 19	22 23
20	2 53	2 34	2 20	2 6	1 54	1 42	1 30	1 15	0 57	0 46	0 32	0 14	— —	23 23	21 48
21	3 53	3 30	3 12	2 56	2 41	2 27	2 11	1 53	1 31	1 17	0 59	0 38	0 8	23 32	— —
22	4 54	4 27	4 7	3 49	3 32	3 15	2 57	2 37	2 11	1 55	1 35	1 8	0 32	23 54	— —
23	5 52	5 24	5 2	4 43	4 25	4 7	3 48	3 26	2 58	2 41	2 19	1 50	1 9	— —	— —
24	6 46	6 19	5 57	5 38	5 20	5 3	4 44	4 21	3 53	3 36	3 14	2 44	2 2	0 43	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Juli 24	16 26	16 53	17 14	17 32	17 50	18 7	18 25	18 47	19 13	19 30	19 51	20 18	20 57	22 3	— —
25	17 31	17 55	18 14	18 30	18 46	19 1	19 17	19 36	19 59	20 14	20 32	20 55	21 27	22 15	— —
26	18 40	18 59	19 14	19 28	19 41	19 53	20 6	20 21	20 40	20 52	21 6	21 23	21 47	22 21	{ 0 10 23 18
27	19 51	20 4	20 15	20 24	20 33	20 42	20 51	21 2	21 16	21 24	21 34	21 46	22 2	22 23	22 56
28	21 1	21 9	21 15	21 20	21 25	21 30	21 35	21 41	21 48	21 53	21 58	22 4	22 13	22 24	22 41
29	22 12	22 13	22 14	22 15	22 15	22 16	22 17	22 18	22 19	22 19	22 20	22 21	22 23	22 25	22 27
30	23 23	23 17	23 13	23 9	23 5	23 2	22 58	22 54	22 49	22 46	22 43	22 38	22 32	22 25	22 14
31	— —	— —	— —	— —	23 56	23 49	23 41	23 32	23 21	23 14	23 6	22 56	22 43	22 26	22 0
Aug. 1	0 33	0 22	0 12	0 4	— —	— —	— —	— —	23 55	23 45	23 33	23 17	22 57	22 28	21 42
2	1 44	1 27	1 13	1 0	0 49	0 38	0 26	0 12	— —	— —	— —	23 43	23 15	22 32	21 12
3	2 55	2 32	2 14	1 58	1 43	1 29	1 13	0 56	0 35	0 21	0 4	— —	23 42	22 43	— —
4	4 3	3 36	3 15	2 57	2 40	2 23	2 5	1 45	1 19	1 3	0 43	0 18	— —	23 9	— —
5	5 5	4 37	4 15	3 55	3 37	3 20	3 2	2 39	2 11	1 53	1 31	1 3	0 22	— —	— —
6	6 1	5 33	5 11	4 52	4 34	4 17	3 58	3 36	3 8	2 51	2 29	2 1	1 20	0 4	— —
7	6 49	6 24	6 4	5 46	5 29	5 13	4 56	4 36	4 10	3 55	3 35	3 9	2 32	1 31	— —
8	7 29	7 8	6 51	6 36	6 22	6 8	5 53	5 36	5 14	5 1	4 44	4 22	3 53	3 7	1 26
9	8 3	7 47	7 33	7 22	7 11	7 0	6 48	6 34	6 18	6 7	5 54	5 38	5 16	4 44	3 50
10	8 33	8 22	8 12	8 4	7 56	7 49	7 41	7 31	7 20	7 13	7 4	6 53	6 38	6 18	5 46
11	9 0	8 54	8 49	8 44	8 40	8 36	8 31	8 26	8 20	8 16	8 11	8 6	7 58	7 47	7 31
12	9 25	9 24	9 24	9 23	9 22	9 21	9 21	9 20	9 19	9 18	9 17	9 16	9 15	9 14	9 12
13	9 50	9 54	9 57	10 0	10 3	10 6	10 9	10 12	10 17	10 20	10 23	10 27	10 32	10 39	10 50
14	10 15	10 24	10 32	10 38	10 44	10 51	10 58	11 5	11 14	11 20	11 28	11 36	11 48	12 4	12 29
15	10 42	10 56	11 7	11 17	11 27	11 36	11 46	11 58	12 13	12 22	12 33	12 46	13 5	13 31	14 14
16	11 12	11 30	11 45	11 58	12 11	12 23	12 36	12 52	13 11	13 24	13 39	13 57	14 23	15 2	16 14
17	11 46	12 9	12 27	12 43	12 58	13 13	13 29	13 48	14 11	14 26	14 44	15 8	15 41	16 34	— —
18	12 26	12 52	13 13	13 31	13 48	14 5	14 23	14 44	15 11	15 27	15 48	16 16	16 55	18 5	— —
19	13 14	13 42	14 4	14 23	14 41	14 59	15 18	15 40	16 8	16 26	16 49	17 18	18 1	19 22	— —
20	14 9	14 37	14 59	15 18	15 36	15 53	16 12	16 35	17 2	17 20	17 42	18 10	18 51	20 5	— —
21	15 12	15 38	15 58	16 16	16 32	16 48	17 5	17 26	17 51	18 7	18 27	18 52	19 27	20 23	— —
22	16 21	16 42	16 59	17 14	17 28	17 42	17 57	18 14	18 34	18 47	19 3	19 24	19 51	20 31	21 45
23	17 32	17 49	18 2	18 13	18 23	18 33	18 44	18 57	19 13	19 22	19 34	19 49	20 8	20 34	21 16
24	18 45	18 55	19 3	19 10	19 17	19 23	19 30	19 38	19 47	19 53	20 0	20 9	20 20	20 36	20 58
25	19 59	20 2	20 4	20 7	20 9	20 11	20 13	20 16	20 19	20 21	20 24	20 27	20 31	20 36	20 43
26	21 11	21 8	21 5	21 3	21 0	20 58	20 56	20 54	20 51	20 49	20 47	20 44	20 41	20 36	20 30
27	22 24	22 14	22 6	21 59	21 52	21 46	21 40	21 32	21 22	21 16	21 10	21 2	20 51	20 37	20 16
28	23 36	23 20	23 7	22 56	22 46	22 35	22 24	22 12	21 56	21 47	21 36	21 22	21 3	20 38	19 58
29	— —	— —	— —	23 54	23 40	23 26	23 11	22 54	22 34	22 21	22 6	21 46	21 20	20 41	19 32
30	0 47	0 26	0 8	— —	— —	— —	— —	23 42	23 17	23 1	22 42	22 17	21 43	20 49	— —
31	1 56	1 30	1 10	0 52	0 35	0 19	0 2	— —	— —	23 49	23 27	22 59	22 18	21 8	— —
Sept. 1	3 0	2 32	2 9	1 50	1 32	1 14	0 56	0 34	0 6	— —	— —	23 52	23 10	21 51	— —
2	3 57	3 29	3 6	2 47	2 29	2 11	1 52	1 29	1 1	0 44	0 21	— —	— —	23 11	— —
3	4 46	4 20	3 59	3 41	3 24	3 7	2 49	2 28	2 1	1 45	1 24	0 56	0 18	— —	— —

Monduntergang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag		−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945		h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Juli	24	6 46	6 19	5 57	5 38	5 20	5 3	4 44	4 21	3 53	3 36	3 14	2 44	2 2	0 43	— —
	25	7 36	7 11	6 50	6 33	6 16	6 0	5 43	5 22	4 56	4 40	4 19	3 52	3 14	2 9	— —
	26	8 19	7 58	7 41	7 26	7 12	6 58	6 43	6 25	6 3	5 49	5 32	5 11	4 40	3 53	2 1
	27	8 57	8 41	8 28	8 17	8 6	7 55	7 44	7 30	7 13	7 3	6 50	6 34	6 12	5 41	4 46
	28	9 31	9 21	9 13	9 5	8 58	8 51	8 43	8 35	8 24	8 18	8 10	8 0	7 46	7 28	6 59
	29	10 2	9 58	9 55	9 52	9 49	9 46	9 43	9 40	9 35	9 32	9 29	9 25	9 20	9 12	9 1
	30	10 33	10 35	10 37	10 38	10 39	10 41	10 42	10 44	10 46	10 47	10 48	10 50	10 53	10 56	11 1
	31	11 4	11 12	11 18	11 24	11 30	11 35	11 41	11 48	11 56	12 2	12 8	12 16	12 26	12 40	13 2
Aug.	1	11 36	11 50	12 2	12 12	12 22	12 31	12 41	12 53	13 7	13 16	13 27	13 41	13 59	14 26	15 8
	2	12 13	12 32	12 48	13 2	13 15	13 28	13 42	13 58	14 18	14 31	14 46	15 5	15 32	16 13	17 32
	3	12 55	13 19	13 38	13 55	14 10	14 26	14 43	15 3	15 27	15 42	16 2	16 27	17 1	17 59	— —
	4	13 42	14 10	14 31	14 50	15 8	15 25	15 43	16 5	16 33	16 50	17 12	17 40	18 20	19 33	— —
	5	14 37	15 5	15 28	15 47	16 5	16 23	16 42	17 4	17 32	17 49	18 12	18 41	19 22	20 38	— —
	6	15 37	16 4	16 26	16 44	17 1	17 18	17 37	17 58	18 24	18 40	19 1	19 28	20 5	21 8	— —
	7	16 40	17 4	17 23	17 40	17 55	18 10	18 26	18 45	19 8	19 22	19 40	20 3	20 34	21 21	23 3
	8	17 45	18 4	18 20	18 33	18 46	18 58	19 11	19 27	19 46	19 57	20 11	20 29	20 52	21 26	22 23
	9	18 48	19 2	19 14	19 24	19 34	19 43	19 53	20 4	20 18	20 26	20 36	20 49	21 6	21 28	22 3
	10	19 49	19 58	20 5	20 12	20 18	20 24	20 30	20 37	20 46	20 52	20 58	21 5	21 15	21 29	21 49
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	12	21 47	21 45	21 44	21 43	21 42	21 41	21 40	21 38	21 37	21 36	21 34	21 33	21 31	21 29	21 25
	13	22 44	22 38	22 32	22 27	22 22	22 18	22 13	22 8	22 1	21 57	21 52	21 46	21 39	21 28	21 13
	14	23 42	23 30	23 21	23 12	23 4	22 57	22 49	22 39	22 27	22 20	22 11	22 1	21 47	21 28	20 59
	15	— —	— —	— —	23 59	23 48	23 37	23 25	23 12	22 55	22 45	22 33	22 17	21 57	21 29	20 42
	16	0 41	0 24	0 10	— —	— —	— —	— —	23 48	23 27	23 14	22 58	22 38	22 11	21 31	20 17
	17	1 40	1 19	1 2	0 47	0 33	0 19	0 4	— —	— —	23 49	23 30	23 5	22 31	21 37	— —
	18	2 40	2 15	1 55	1 38	1 21	1 5	0 48	0 29	0 4	— —	— —	23 41	23 1	21 51	— —
	19	3 38	3 11	2 49	2 30	2 12	1 55	1 37	1 15	0 47	0 31	0 9	— —	23 46	22 25	— —
	20	4 34	4 6	3 44	3 25	3 7	2 49	2 30	2 7	1 39	1 23	0 59	0 29	— —	23 37	— —
	21	5 26	4 59	4 38	4 20	4 2	3 45	3 27	3 5	2 38	2 21	1 59	1 31	0 51	— —	— —
	22	6 12	5 49	5 30	5 14	4 59	4 44	4 27	4 8	3 44	3 29	3 10	2 46	2 12	1 16	— —
	23	6 53	6 35	6 20	6 7	5 54	5 42	5 29	5 13	4 54	4 43	4 28	4 9	3 44	3 5	1 54
	24	7 29	7 16	7 6	6 57	6 48	6 40	6 31	6 20	6 7	5 58	5 48	5 36	5 19	4 55	4 17
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	26	8 33	8 33	8 33	8 33	8 33	8 33	8 33	8 33	8 33	8 33	8 33	8 32	8 32	8 32	8 31
	27	9 5	9 11	9 16	9 21	9 25	9 29	9 34	9 39	9 46	9 50	9 54	10 0	10 8	10 19	10 35
	28	9 37	9 50	10 0	10 9	10 18	10 26	10 35	10 45	10 58	11 6	11 16	11 28	11 44	12 6	12 42
	29	10 13	10 31	10 46	10 59	11 11	11 23	11 36	11 51	12 10	12 22	12 36	12 54	13 19	13 55	15 2
	30	10 53	11 16	11 35	11 51	12 6	12 21	12 38	12 57	13 20	13 35	13 53	14 17	14 50	15 43	— —
	31	11 39	12 6	12 27	12 46	13 3	13 20	13 38	14 0	14 27	14 44	15 5	15 32	16 12	17 23	— —
Sept.	1	12 31	12 59	13 22	13 41	13 59	14 17	14 36	14 59	15 27	15 44	16 7	16 36	17 19	18 37	— —
	2	13 29	13 56	14 18	14 38	14 56	15 13	15 31	15 53	16 21	16 38	16 59	17 27	18 7	19 15	— —
	3	14 30	14 55	15 16	15 33	15 49	16 5	16 22	16 42	17 6	17 21	17 40	18 5	18 38	19 31	— —

Mondaufgang 1945

Mittlere Ortszeit | Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Sept. 3	4 46	4 20	3 59	3 41	3 24	3 7	2 49	2 28	2 1	1 45	1 24	0 56	0 18	— —	— —
4	5 28	5 5	4 47	4 31	4 16	4 1	3 45	3 26	3 3	2 49	2 31	2 8	1 35	0 44	— —
5	6 4	5 45	5 30	5 18	5 6	4 53	4 40	4 25	4 7	3 56	3 41	3 22	2 58	2 21	1 15
6	6 34	6 21	6 10	6 1	5 52	5 43	5 33	5 22	5 9	5 1	4 50	4 37	4 20	3 56	3 17
7	7 2	6 54	6 47	6 41	6 35	6 30	6 25	6 18	6 9	6 4	5 58	5 50	5 40	5 27	5 5
8	7 27	7 24	7 22	7 20	7 18	7 16	7 14	7 12	7 9	7 7	7 5	7 2	6 59	6 54	6 47
9	7 52	7 54	7 56	7 58	8 0	8 1	8 3	8 5	8 7	8 8	8 10	8 13	8 16	8 20	8 26
10	8 17	8 24	8 30	8 35	8 40	8 46	8 51	8 57	9 5	9 10	9 16	9 23	9 32	9 45	10 5
11	8 43	8 55	9 5	9 14	9 23	9 31	9 40	9 50	10 3	10 11	10 21	10 33	10 49	11 12	11 48
12	9 11	9 28	9 42	9 54	10 6	10 17	10 29	10 44	11 1	11 12	11 26	11 43	12 6	12 41	13 41
13	9 43	10 4	10 21	10 37	10 52	11 5	11 20	11 38	12 0	12 14	12 32	12 54	13 24	14 12	16 11
14	10 20	10 45	11 5	11 22	11 39	11 55	12 13	12 33	12 59	13 15	13 36	14 2	14 40	15 44	— —
15	11 3	11 31	11 52	12 12	12 30	12 47	13 6	13 28	13 56	14 13	14 36	15 5	15 48	17 9	— —
16	11 54	12 23	12 45	13 4	13 22	13 40	14 0	14 23	14 51	15 9	15 32	16 1	16 45	18 7	— —
17	12 53	13 20	13 41	14 0	14 17	14 34	14 52	15 14	15 41	15 58	16 19	16 47	17 25	18 32	— —
18	13 58	14 22	14 41	14 57	15 13	15 28	15 44	16 3	16 26	16 41	16 59	17 22	17 53	18 42	20 34
19	15 8	15 27	15 42	15 55	16 8	16 20	16 33	16 48	17 6	17 18	17 32	17 49	18 12	18 45	19 41
20	16 21	16 34	16 44	16 53	17 2	17 10	17 19	17 30	17 43	17 51	18 0	18 11	18 26	18 47	19 19
21	17 35	17 42	17 47	17 51	17 56	18 0	18 5	18 10	18 16	18 20	18 25	18 30	18 37	18 47	19 2
22	18 50	18 50	18 49	18 49	18 49	18 49	18 48	18 48	18 48	18 48	18 48	18 48	18 47	18 47	18 47
23	20 5	19 58	19 52	19 47	19 42	19 37	19 32	19 27	19 20	19 16	19 11	19 5	18 57	18 47	18 32
24	21 21	21 7	20 56	20 46	20 37	20 28	20 18	20 7	19 54	19 46	19 36	19 24	19 9	18 48	18 16
25	22 35	22 15	21 59	21 45	21 32	21 20	21 7	20 51	20 32	20 20	20 5	19 47	19 24	18 49	17 52
26	23 47	23 22	23 2	22 45	22 29	22 14	21 58	21 38	21 14	20 59	20 40	20 17	19 44	18 54	16 51
27	— —	— —	— —	23 45	23 27	23 10	22 51	22 29	22 2	21 45	21 23	20 55	20 15	19 7	— —
28	0 54	0 26	0 4	— —	— —	— —	23 47	23 24	22 56	22 38	22 15	21 45	21 2	19 41	— —
29	1 54	1 25	1 3	0 43	0 24	0 6	— —	— —	23 55	23 38	23 16	22 47	22 6	20 51	— —
30	2 46	2 19	1 57	1 38	1 20	1 3	0 44	0 22	— —	— —	— —	23 57	23 22	22 24	— —
Okt. 1	3 29	3 5	2 46	2 29	2 13	1 57	1 40	1 21	0 56	0 41	0 22	— —	— —	— —	22 39
2	4 6	3 46	3 30	3 16	3 2	2 49	2 35	2 19	1 59	1 46	1 30	1 11	0 43	0 1	— —
3	4 38	4 23	4 10	4 0	3 50	3 40	3 29	3 16	3 1	2 51	2 39	2 25	2 5	1 37	0 50
4	5 6	4 56	4 48	4 40	4 33	4 27	4 20	4 12	4 2	3 55	3 48	3 38	3 26	3 8	2 41
5	5 31	5 27	5 23	5 19	5 16	5 13	5 10	5 6	5 1	4 58	4 55	4 50	4 45	4 37	4 25
6	5 56	5 56	5 57	5 57	5 58	5 58	5 58	5 59	5 59	6 0	6 0	6 1	6 2	6 3	6 5
7	6 20	6 25	6 30	6 34	6 38	6 42	6 46	6 51	6 57	7 1	7 6	7 11	7 19	7 29	7 44
8	6 45	6 56	7 5	7 13	7 20	7 27	7 35	7 44	7 55	8 2	8 11	8 22	8 36	8 55	9 26
9	7 12	7 28	7 41	7 52	8 3	8 13	8 24	8 37	8 54	9 4	9 17	9 32	9 53	10 24	11 15
10	7 42	8 2	8 19	8 33	8 47	9 0	9 14	9 31	9 53	10 6	10 22	10 43	11 11	11 55	13 27
11	8 17	8 41	9 0	9 17	9 33	9 49	10 6	10 26	10 51	11 6	11 26	11 52	12 28	13 28	— —
12	8 57	9 24	9 46	10 5	10 23	10 40	10 59	11 21	11 48	12 6	12 28	12 56	13 39	14 58	— —
13	9 44	10 13	10 35	10 55	11 14	11 32	11 51	12 14	12 43	13 2	13 25	13 54	14 40	16 8	— —
14	10 38	11 6	11 29	11 48	12 6	12 24	12 43	13 6	13 34	13 52	14 14	14 43	15 25	16 42	— —

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Sept. 3	14 30	14 55	15 16	15 33	15 49	16 5	16 22	16 42	17 6	17 21	17 40	18 5	18 38	19 31	— —
4	15 34	15 55	16 12	16 26	16 40	16 54	17 9	17 25	17 45	17 57	18 13	18 33	18 59	19 38	20 46
5	16 37	16 53	17 6	17 17	17 28	17 39	17 50	18 3	18 18	18 28	18 40	18 54	19 13	19 40	20 22
6	17 38	17 49	17 58	18 6	18 14	18 21	18 29	18 37	18 48	18 55	19 2	19 11	19 24	19 41	20 6
7	18 38	18 44	18 49	18 53	18 57	19 0	19 3	19 8	19 14	19 17	19 21	19 26	19 32	19 40	19 52
8	19 37	19 37	19 37	19 38	19 38	19 38	19 38	19 39	19 39	19 39	19 39	19 39	19 39	19 40	19 40
9	20 35	20 30	20 26	20 22	20 19	20 16	20 12	20 8	20 3	20 0	19 57	19 52	19 47	19 39	19 28
10	21 33	21 23	21 14	21 7	21 0	20 54	20 47	20 38	20 28	20 22	20 15	20 6	19 54	19 38	19 15
11	22 31	22 16	22 3	21 53	21 43	21 33	21 22	21 10	20 55	20 46	20 35	20 21	20 3	19 38	18 58
12	23 29	23 10	22 54	22 40	22 27	22 14	22 0	21 45	21 25	21 13	20 58	20 40	20 15	19 39	18 37
13	— —	— —	23 45	23 29	23 14	22 58	22 42	22 23	21 59	21 45	21 27	21 4	20 32	19 42	17 42
14	0 28	0 4	— —	— —	— —	23 45	23 27	23 6	22 39	22 22	22 2	21 35	20 56	19 51	— —
15	1 27	1 0	0 38	0 20	0 2	— —	— —	23 55	23 26	23 9	22 46	22 16	21 33	20 13	— —
16	2 22	1 54	1 32	1 13	0 55	0 37	0 18	— —	— —	— —	23 40	23 11	22 28	21 6	— —
17	3 15	2 47	2 25	2 6	1 48	1 31	1 12	0 49	0 21	0 3	— —	— —	23 41	22 35	— —
18	4 3	3 38	3 17	3 0	2 43	2 27	2 9	1 48	1 23	1 7	0 46	0 19	— —	— —	22 32
19	4 45	4 25	4 8	3 53	3 39	3 25	3 10	2 52	2 31	2 17	2 0	1 38	1 8	0 21	— —
20	5 23	5 8	4 55	4 44	4 33	4 23	4 12	3 59	3 42	3 32	3 20	3 4	2 43	2 12	1 20
21	5 58	5 48	5 41	5 34	5 27	5 21	5 14	5 6	4 56	4 50	4 42	4 33	4 20	4 3	3 36
22	6 30	6 28	6 25	6 23	6 21	6 19	6 17	6 14	6 11	6 9	6 6	6 3	5 59	5 54	5 46
23	7 2	7 6	7 9	7 12	7 14	7 16	7 19	7 22	7 26	7 28	7 31	7 34	7 39	7 44	7 53
24	7 35	7 45	7 54	8 1	8 8	8 15	8 23	8 31	8 41	8 47	8 55	9 5	9 18	9 36	10 4
25	8 11	8 27	8 40	8 52	9 3	9 14	9 26	9 39	9 56	10 6	10 19	10 36	10 57	11 29	12 24
26	8 50	9 12	9 30	9 45	10 0	10 14	10 29	10 47	11 10	11 24	11 41	12 3	12 34	13 22	15 25
27	9 35	10 1	10 22	10 40	10 57	11 14	11 32	11 53	12 19	12 36	12 57	13 24	14 3	15 11	— —
28	10 26	10 55	11 17	11 37	11 55	12 13	12 32	12 55	13 23	13 41	14 4	14 33	15 16	16 38	— —
29	11 23	11 51	12 14	12 33	12 52	13 10	13 29	13 51	14 19	14 37	14 59	15 28	16 10	17 25	— —
30	12 23	12 50	13 11	13 29	13 46	14 3	14 21	14 41	15 7	15 23	15 43	16 9	16 45	17 44	— —
Okt. 1	13 26	13 49	14 7	14 23	14 38	14 52	15 7	15 25	15 47	16 1	16 18	16 39	17 8	17 51	19 15
2	14 29	14 47	15 1	15 14	15 26	15 37	15 49	16 4	16 21	16 32	16 45	17 1	17 23	17 53	18 43
3	15 30	15 43	15 53	16 3	16 11	16 19	16 28	16 39	16 51	16 59	17 8	17 19	17 34	17 54	18 24
4	16 30	16 38	16 44	16 49	16 54	16 59	17 4	17 10	17 18	17 22	17 27	17 34	17 42	17 53	18 9
5	17 29	17 31	17 33	17 35	17 37	17 38	17 39	17 41	17 43	17 44	17 45	17 47	17 49	17 52	17 56
6	18 27	18 24	18 21	18 19	18 17	18 15	18 13	18 10	18 7	18 4	18 2	18 0	17 56	17 51	17 43
7	19 25	19 17	19 10	19 4	18 58	18 52	18 46	18 40	18 31	18 26	18 20	18 12	18 3	17 50	17 30
8	20 23	20 10	19 59	19 49	19 40	19 31	19 22	19 11	18 57	18 49	18 39	18 27	18 11	17 49	17 14
9	21 22	21 3	20 48	20 36	20 24	20 11	19 58	19 44	19 26	19 15	19 1	18 44	18 21	17 48	16 54
10	22 21	21 58	21 39	21 24	21 9	20 54	20 38	20 20	19 58	19 44	19 27	19 5	18 35	17 50	16 16
11	23 19	22 52	22 31	22 13	21 56	21 40	21 22	21 1	20 35	20 19	19 58	19 32	18 55	17 54	— —
12	— —	23 46	23 24	23 5	22 47	22 29	22 9	21 47	21 18	21 0	20 38	20 9	19 26	18 7	— —
13	0 15	— —	— —	23 57	23 38	23 20	23 1	22 38	22 9	21 51	21 28	20 57	20 13	18 44	— —
14	1 8	0 39	0 17	— —	— —	— —	23 56	23 34	23 6	22 49	22 27	21 58	21 17	20 0	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag		Geographische Breite														
		−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945		h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Okt.	14	10 38	11 6	11 29	11 48	12 6	12 24	12 43	13 6	13 34	13 52	14 14	14 43	15 25	16 42	— —
	15	11 39	12 5	12 25	12 43	13 0	13 16	13 34	13 54	14 20	14 36	14 56	15 21	15 57	16 55	— —
	16	12 45	13 7	13 24	13 39	13 53	14 7	14 22	14 39	15 1	15 14	15 30	15 50	16 18	16 59	18 15
	17	13 55	14 11	14 24	14 36	14 47	14 57	15 8	15 21	15 37	15 47	15 59	16 13	16 33	17 0	17 43
	18	15 7	15 18	15 26	15 33	15 40	15 46	15 53	16 1	16 11	16 17	16 24	16 33	16 45	17 0	17 23
	19	16 22	16 25	16 28	16 30	16 32	16 34	16 37	16 40	16 43	16 45	16 47	16 50	16 54	16 59	17 7
	20	17 38	17 34	17 31	17 28	17 25	17 23	17 21	17 18	17 15	17 13	17 10	17 7	17 3	16 59	16 52
	21	18 55	18 44	18 35	18 28	18 21	18 14	18 7	17 58	17 48	17 41	17 34	17 25	17 14	16 58	16 35
	22	20 12	19 55	19 41	19 29	19 17	19 6	18 54	18 41	18 24	18 14	18 2	17 46	17 26	16 58	16 14
	23	21 29	21 5	20 47	20 31	20 16	20 1	19 45	19 27	19 5	18 51	18 34	18 13	17 44	17 1	15 36
	24	22 41	22 14	21 52	21 33	21 16	20 59	20 41	20 19	19 53	19 36	19 15	18 49	18 11	17 8	— —
	25	23 46	23 17	22 54	22 34	22 15	21 57	21 38	21 15	20 46	20 28	20 5	19 35	18 52	17 30	— —
	26	— —	— —	23 52	23 32	23 14	22 56	22 37	22 14	21 45	21 28	21 5	20 35	19 52	18 28	— —
	27	0 43	0 14	— —	— —	— —	23 52	23 34	23 14	22 48	22 32	22 11	21 44	21 7	20 0	— —
	28	1 30	1 4	0 44	0 26	0 9	— —	— —	— —	23 51	23 37	23 20	22 58	22 28	21 41	19 47
	29	2 9	1 47	1 30	1 15	1 0	0 46	0 31	0 13	— —	— —	— —	— —	23 51	23 19	22 22
	30	2 42	2 25	2 12	2 0	1 48	1 37	1 25	1 11	0 54	0 43	0 30	0 14	— —	— —	— —
	31	3 11	2 59	2 49	2 41	2 33	2 25	2 17	2 7	1 55	1 47	1 39	1 27	1 13	0 52	0 19
Nov.	1	3 36	3 30	3 25	3 20	3 15	3 11	3 6	3 1	2 55	2 49	2 46	2 40	2 32	2 21	2 4
	2	4 1	3 59	3 59	3 58	3 57	3 56	3 55	3 54	3 53	3 52	3 51	3 50	3 49	3 47	3 45
	3	4 25	4 28	4 32	4 35	4 37	4 40	4 43	4 47	4 51	4 54	4 57	5 1	5 6	5 13	5 23
	4	4 49	4 58	5 6	5 12	5 18	5 25	5 32	5 39	5 49	5 55	6 2	6 11	6 23	6 39	7 4
	5	5 15	5 29	5 41	5 51	6 0	6 10	6 21	6 33	6 47	6 56	7 8	7 22	7 41	8 8	8 51
	6	5 44	6 3	6 18	6 32	6 45	6 57	7 11	7 27	7 46	7 58	8 14	8 33	8 59	9 39	10 55
	7	6 17	6 40	6 59	7 15	7 30	7 46	8 3	8 21	8 45	9 0	9 19	9 44	10 18	11 13	— —
	8	6 55	7 22	7 43	8 1	8 19	8 36	8 54	9 16	9 44	10 0	10 22	10 51	11 32	12 47	— —
	9	7 40	8 8	8 31	8 51	9 9	9 27	9 47	10 10	10 39	10 57	11 21	11 51	12 36	14 8	— —
	10	8 31	9 0	9 22	9 42	10 1	10 19	10 39	11 2	11 31	11 49	12 12	12 42	13 27	14 53	— —
	11	9 28	9 55	10 17	10 35	10 53	11 10	11 28	11 50	12 17	12 34	12 55	13 23	14 1	15 8	— —
	12	10 31	10 55	11 13	11 30	11 45	12 0	12 16	12 35	12 59	13 13	13 31	13 54	14 25	15 14	17 4
	13	11 37	11 56	12 11	12 24	12 37	12 49	13 2	13 17	13 35	13 47	14 1	14 18	14 41	15 15	16 10
	14	12 46	12 59	13 9	13 19	13 28	13 36	13 45	13 56	14 9	14 17	14 26	14 38	14 53	15 14	15 46
	15	13 57	14 4	14 9	14 14	14 19	14 23	14 28	14 33	14 40	14 44	14 49	14 55	15 3	15 13	15 28
	16	15 9	15 9	15 9	15 10	15 10	15 10	15 10	15 10	15 10	15 10	15 10	15 11	15 11	15 12	15 13
	17	16 24	16 18	16 12	16 7	16 2	15 58	15 53	15 48	15 42	15 38	15 33	15 27	15 20	15 11	14 57
	18	17 41	17 27	17 16	17 6	16 57	16 48	16 38	16 28	16 15	16 8	15 58	15 46	15 31	15 10	14 39
	19	18 59	18 39	18 23	18 9	17 55	17 42	17 28	17 13	16 54	16 42	16 27	16 9	15 45	15 10	14 12
	20	20 16	19 51	19 30	19 12	18 56	18 40	18 23	18 3	17 38	17 23	17 4	16 40	16 6	15 14	— —
	21	21 28	20 59	20 36	20 17	19 58	19 40	19 21	18 58	18 30	18 13	17 50	17 21	16 40	15 25	— —
	22	22 31	22 2	21 38	21 19	21 0	20 41	20 21	19 58	19 29	19 10	18 47	18 17	17 32	16 1	— —
	23	23 24	22 57	22 35	22 16	21 58	21 41	21 22	21 0	20 33	20 16	19 54	19 25	18 43	17 26	— —
	24	— —	23 44	23 25	23 9	22 53	22 38	22 22	22 3	21 39	21 24	21 5	20 40	20 6	19 11	— —

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Okt. 14	1 8	0 39	0 17	— —	— —	— —	23 56	23 34	23 6	22 49	22 27	21 58	21 17	20 0	— —
15	1 56	1 29	1 8	0 49	0 31	0 14	— —	— —	— —	23 55	23 35	23 11	22 36	21 39	— —
16	2 39	2 16	1 57	1 41	1 25	1 10	0 54	0 34	0 10	— —	— —	— —	— —	23 27	22 13
17	3 18	2 59	2 44	2 31	2 18	2 6	1 53	1 37	1 18	1 6	0 51	0 32	0 6	— —	— —
18	3 53	3 40	3 30	3 21	3 12	3 3	2 54	2 43	2 29	2 21	2 11	1 58	1 41	1 16	0 38
19	4 25	4 19	4 14	4 9	4 4	4 0	3 55	3 49	3 42	3 38	3 33	3 26	3 18	3 6	2 48
20	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57	4 57
21	5 29	5 36	5 42	5 47	5 52	5 56	6 1	6 7	6 14	6 18	6 23	6 30	6 38	6 50	7 8
22	6 4	6 17	6 28	6 38	6 47	6 56	7 6	7 17	7 31	7 39	7 50	8 3	8 21	8 46	9 27
23	6 42	7 2	7 18	7 32	7 45	7 58	8 12	8 28	8 48	9 1	9 17	9 36	10 3	10 45	12 7
24	7 26	7 51	8 11	8 28	8 45	9 1	9 18	9 38	10 3	10 19	10 39	11 5	11 41	12 43	— —
25	8 16	8 45	9 7	9 26	9 44	10 2	10 21	10 44	11 13	11 31	11 53	12 22	13 5	14 27	— —
26	9 13	9 42	10 6	10 25	10 44	11 3	11 22	11 45	12 14	12 32	12 55	13 25	14 9	15 33	— —
27	10 14	10 42	11 4	11 23	11 41	11 59	12 18	12 39	13 6	13 22	13 44	14 12	14 51	15 57	— —
28	11 18	11 42	12 2	12 19	12 35	12 50	13 6	13 25	13 49	14 4	14 22	14 45	15 16	16 6	18 1
29	12 22	12 41	12 57	13 11	13 24	13 37	13 51	14 6	14 25	14 37	14 51	15 9	15 33	16 8	17 7
30	13 24	13 38	13 50	14 1	14 11	14 20	14 30	14 42	14 56	15 5	15 15	15 28	15 45	16 8	16 44
31	14 24	14 33	14 41	14 48	14 54	15 0	15 7	15 14	15 23	15 28	15 35	15 43	15 53	16 7	16 28
Nov. 1	15 23	15 27	15 30	15 33	15 36	15 38	15 41	15 44	15 48	15 50	15 53	15 56	16 0	16 6	16 14
2	16 21	16 19	16 18	16 17	16 17	16 16	16 15	16 13	16 12	16 11	16 10	16 8	16 6	16 4	16 1
3	17 19	17 12	17 6	17 2	16 58	16 53	16 48	16 42	16 36	16 32	16 27	16 21	16 13	16 3	15 47
4	18 17	18 5	17 55	17 47	17 39	17 31	17 23	17 13	17 1	16 54	16 45	16 34	16 20	16 1	15 32
5	19 16	18 58	18 45	18 33	18 21	18 10	17 59	17 45	17 28	17 18	17 5	16 50	16 29	16 0	15 12
6	20 15	19 53	19 35	19 21	19 7	18 52	18 37	18 20	17 59	17 46	17 29	17 9	16 41	16 0	14 42
7	21 13	20 48	20 27	20 10	19 54	19 37	19 19	18 59	18 34	18 18	17 59	17 34	16 59	16 2	— —
8	22 10	21 42	21 20	21 1	20 43	20 25	20 6	19 43	19 15	18 58	18 36	18 7	17 25	16 9	— —
9	23 4	22 35	22 12	21 52	21 34	21 15	20 55	20 32	20 3	19 45	19 21	18 50	18 5	16 34	— —
10	23 53	23 25	23 3	22 44	22 26	22 8	21 50	21 26	20 57	20 39	20 16	19 46	19 2	17 35	— —
11	— —	— —	23 52	23 34	23 17	23 1	22 44	22 23	21 57	21 41	21 20	20 54	20 15	19 9	— —
12	0 37	0 12	— —	— —	— —	23 56	23 41	23 23	23 2	22 48	22 31	22 9	21 39	20 53	19 5
13	1 16	0 55	0 38	0 24	0 10	— —	— —	— —	— —	23 59	23 47	23 31	23 9	22 39	21 46
14	1 51	1 35	1 23	1 11	1 0	0 50	0 39	0 26	0 9	— —	— —	— —	— —	— —	23 57
15	2 23	2 13	2 5	1 58	1 51	1 45	1 38	1 29	1 19	1 12	1 5	0 56	0 43	0 25	— —
16	2 53	2 50	2 47	2 45	2 43	2 40	2 37	2 34	2 31	2 29	2 26	2 22	2 18	2 12	2 2
17	3 24	3 27	3 30	3 32	3 34	3 36	3 38	3 41	3 44	3 46	3 49	3 52	3 55	4 0	4 8
18	3 56	4 6	4 14	4 21	4 28	4 35	4 42	4 50	5 0	5 6	5 14	5 24	5 36	5 54	6 20
19	4 32	4 48	5 2	5 14	5 25	5 36	5 48	6 1	6 18	6 28	6 41	6 57	7 19	7 51	8 47
20	5 13	5 35	5 53	6 9	6 24	6 39	6 55	7 13	7 35	7 49	8 8	8 31	9 2	9 53	— —
21	6 1	6 28	6 50	7 8	7 26	7 43	8 1	8 23	8 50	9 7	9 29	9 57	10 38	11 52	— —
22	6 56	7 26	7 49	8 9	8 28	8 46	9 5	9 29	9 58	10 16	10 40	11 11	11 56	13 25	— —
23	7 58	8 27	8 50	9 10	9 29	9 47	10 6	10 29	10 57	11 15	11 38	12 7	12 50	14 6	— —
24	9 4	9 30	9 51	10 9	10 26	10 42	10 59	11 20	11 46	12 2	12 22	12 47	13 22	14 19	— —

Mondaufgang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Nov. 24	— —	23 44	23 25	23 9	22 53	22 38	22 22	22 3	21 39	21 24	21 5	20 40	20 6	19 11	— —
25	0 8	— —	— —	23 57	23 44	23 31	23 18	23 3	22 43	22 31	22 16	21 58	21 32	20 54	19 41
26	0 44	0 25	0 10	— —	— —	— —	— —	— —	23 46	23 37	23 27	23 14	22 56	22 31	21 50
27	1 15	1 1	0 50	0 40	0 31	0 22	0 12	0 0	— —	— —	— —	— —	— —	— —	23 41
28	1 41	1 33	1 26	1 20	1 14	1 9	1 3	0 56	0 47	0 41	0 35	0 28	0 17	0 3	— —
29	2 6	2 3	2 0	1 58	1 56	1 54	1 52	1 49	1 46	1 44	1 42	1 39	1 36	1 30	1 24
30	2 30	2 32	2 34	2 35	2 36	2 38	2 40	2 42	2 44	2 45	2 47	2 49	2 52	2 56	3 2
Dez. 1	2 54	3 1	3 7	3 12	3 17	3 22	3 27	3 34	3 42	3 47	3 53	4 0	4 9	4 22	4 42
2	3 19	3 31	3 42	3 51	4 0	4 8	4 17	4 27	4 40	4 48	4 58	5 10	5 27	5 50	6 26
3	3 47	4 4	4 18	4 30	4 42	4 54	5 6	5 21	5 39	5 50	6 4	6 22	6 46	7 21	8 23
4	4 18	4 40	4 58	5 13	5 27	5 42	5 57	6 16	6 39	6 53	7 11	7 33	8 5	8 55	— —
5	4 55	5 20	5 41	5 59	6 15	6 32	6 50	7 11	7 38	7 54	8 15	8 42	9 22	10 31	— —
6	5 37	6 5	6 28	6 47	7 5	7 24	7 43	8 6	8 35	8 53	9 16	9 46	10 31	12 0	— —
7	6 26	6 55	7 19	7 38	7 57	8 16	8 36	8 59	9 28	9 46	10 10	10 41	11 27	12 59	— —
8	7 22	7 50	8 12	8 32	8 50	9 7	9 26	9 49	10 17	10 34	10 56	11 25	12 6	13 21	— —
9	8 23	8 48	9 8	9 25	9 41	9 58	10 15	10 34	10 59	11 15	11 34	11 58	12 32	13 27	— —
10	9 27	9 48	10 5	10 19	10 33	10 46	11 0	11 17	11 37	11 49	12 5	12 24	12 50	13 29	14 37
11	10 34	10 49	11 1	11 12	11 22	11 32	11 43	11 55	12 10	12 20	12 31	12 44	13 2	13 28	14 8
12	11 42	11 51	11 59	12 5	12 11	12 18	12 25	12 32	12 41	12 47	12 53	13 1	13 12	13 27	13 48
13	12 51	12 54	12 56	12 58	13 0	13 2	13 4	13 7	13 10	13 12	13 14	13 17	13 20	13 25	13 32
14	14 2	13 58	13 55	13 53	13 50	13 48	13 46	13 43	13 40	13 38	13 35	13 32	13 29	13 24	13 16
15	15 15	15 5	14 56	14 49	14 42	14 35	14 28	14 20	14 11	14 5	13 58	13 49	13 38	13 23	13 0
16	16 30	16 13	16 0	15 48	15 37	15 26	15 14	15 1	14 45	14 35	14 23	14 8	13 49	13 22	12 39
17	17 47	17 24	17 5	16 50	16 35	16 20	16 5	15 47	15 25	15 12	14 55	14 34	14 5	13 23	12 3
18	19 1	18 34	18 12	17 53	17 36	17 19	17 0	16 39	16 13	15 56	15 35	15 8	14 31	13 29	— —
19	20 10	19 41	19 18	18 58	18 39	18 20	18 0	17 37	17 8	16 50	16 27	15 56	15 13	13 48	— —
20	21 10	20 41	20 18	19 59	19 40	19 22	19 3	18 40	18 11	17 53	17 30	17 0	16 15	14 48	— —
21	22 0	21 34	21 14	20 56	20 39	20 22	20 4	19 44	19 18	19 2	18 41	18 14	17 36	16 29	— —
22	22 41	22 20	22 2	21 48	21 34	21 20	21 5	20 47	20 26	20 13	19 56	19 34	19 4	18 18	16 34
23	23 14	22 58	22 45	22 34	22 24	22 13	22 1	21 48	21 32	21 22	21 9	20 53	20 32	20 1	19 9
24	23 43	23 33	23 24	23 17	23 10	23 2	22 54	22 46	22 35	22 28	22 20	22 10	21 56	21 38	21 9
25	— —	— —	— —	23 56	23 53	23 49	23 45	23 41	23 36	23 33	23 29	23 24	23 18	23 9	22 56
26	0 9	0 4	0 0	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
27	0 34	0 34	0 34	0 34	0 34	0 34	0 35	0 35	0 35	0 35	0 35	0 36	0 36	0 36	0 37
28	0 57	1 3	1 7	1 11	1 15	1 19	1 23	1 27	1 33	1 37	1 41	1 46	1 53	2 3	2 17
29	1 22	1 33	1 41	1 49	1 56	2 3	2 11	2 20	2 31	2 38	2 46	2 57	3 11	3 29	3 59
30	1 49	2 4	2 17	2 28	2 39	2 49	3 1	3 14	3 30	3 40	3 52	4 8	4 29	4 59	5 50
31	2 18	2 39	2 55	3 9	3 23	3 37	3 51	4 8	4 29	4 42	4 58	5 19	5 48	6 32	8 5

Monduntergang 1945

Mittlere Ortszeit — Meridian von Greenwich

Tag	Geographische Breite														
	−40°	−30°	−20°	−10°	0°	+10°	+20°	+30°	+40°	+45°	+50°	+55°	+60°	+65°	+70°
1945	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
Nov. 24	9 4	9 30	9 51	10 9	10 26	10 42	10 59	11 20	11 46	12 2	12 22	12 47	13 22	14 19	— —
25	10 10	10 31	10 49	11 4	11 18	11 32	11 48	12 4	12 26	12 39	12 55	13 15	13 42	14 23	15 37
26	11 14	11 31	11 44	11 56	12 7	12 18	12 30	12 43	12 59	13 9	13 21	13 36	13 55	14 23	15 7
27	12 16	12 27	12 37	12 45	12 53	13 0	13 8	13 16	13 27	13 34	13 42	13 52	14 5	14 22	14 48
28	13 16	13 22	13 26	13 31	13 35	13 39	13 43	13 47	13 53	13 56	14 0	14 5	14 12	14 20	14 33
29	14 14	14 15	14 15	14 15	14 15	14 16	14 16	14 17	14 17	14 17	14 17	14 18	14 18	14 18	14 19
30	15 12	15 7	15 3	14 59	14 56	14 53	14 50	14 46	14 41	14 38	14 34	14 30	14 24	14 17	14 6
Dez. 1	16 10	16 0	15 51	15 44	15 37	15 30	15 23	15 15	15 5	14 59	14 52	14 42	14 31	14 15	13 51
2	17 8	16 53	16 40	16 30	16 20	16 9	15 58	15 46	15 31	15 22	15 11	14 57	14 39	14 13	13 33
3	18 7	17 47	17 31	17 17	17 4	16 51	16 37	16 21	16 1	15 49	15 34	15 15	14 50	14 12	13 8
4	19 7	18 42	18 23	18 6	17 50	17 35	17 19	16 59	16 34	16 19	16 0	15 37	15 5	14 13	— —
5	20 5	19 38	19 16	18 57	18 39	18 22	18 3	17 41	17 14	16 57	16 35	16 7	15 27	14 17	— —
6	21 1	20 32	20 9	19 49	19 30	19 12	18 52	18 29	18 0	17 42	17 18	16 47	16 2	14 33	— —
7	21 52	21 23	21 0	20 41	20 22	20 4	19 44	19 21	18 52	18 34	18 10	17 40	16 54	15 22	— —
8	22 38	22 11	21 50	21 32	21 14	20 57	20 39	20 18	19 50	19 33	19 12	18 44	18 3	16 49	— —
9	23 18	22 55	22 37	22 21	22 6	21 51	21 35	21 17	20 53	20 38	20 20	19 57	19 24	18 31	— —
10	23 53	23 35	23 21	23 8	22 57	22 45	22 32	22 17	21 59	21 48	21 33	21 15	20 51	20 14	19 9
11	— —	— —	— —	23 54	23 46	23 38	23 29	23 19	23 6	22 58	22 48	22 37	22 21	21 58	21 23
12	0 25	0 13	0 3	— —	— —	— —	— —	— —	— —	— —	— —	— —	23 52	23 41	23 25
13	0 54	0 48	0 43	0 39	0 35	0 31	0 26	0 21	0 14	0 11	0 6	0 0	— —	— —	— —
14	1 23	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 25	1 25	1 25	1 25
15	1 53	2 0	2 5	2 10	2 14	2 19	2 24	2 29	2 36	2 40	2 45	2 51	2 59	3 11	3 29
16	2 26	2 39	2 49	2 59	3 8	3 16	3 26	3 37	3 50	3 59	4 9	4 21	4 38	5 2	5 41
17	3 2	3 22	3 37	3 51	4 4	4 17	4 31	4 46	5 6	5 18	5 34	5 53	6 19	7 0	8 18
18	3 46	4 11	4 30	4 47	5 4	5 20	5 37	5 57	6 22	6 38	6 58	7 23	7 59	9 1	— —
19	4 37	5 5	5 28	5 48	6 6	6 24	6 44	7 6	7 34	7 52	8 15	8 45	9 28	10 53	— —
20	5 36	6 6	6 29	6 49	7 8	7 27	7 47	8 10	8 39	8 57	9 21	9 52	10 36	12 3	— —
21	6 42	7 10	7 32	7 51	8 9	8 27	8 46	9 7	9 35	9 52	10 13	10 41	11 21	12 27	— —
22	7 50	8 14	8 34	8 50	9 6	9 21	9 38	9 57	10 20	10 34	10 52	11 15	11 47	12 34	14 20
23	8 57	9 17	9 32	9 46	9 58	10 10	10 23	10 39	10 57	11 8	11 22	11 40	12 3	12 36	13 31
24	10 2	10 16	10 27	10 37	10 46	10 55	11 4	11 15	11 28	11 36	11 46	11 58	12 14	12 35	13 8
25	11 5	11 13	11 19	11 25	11 31	11 36	11 42	11 48	11 56	12 0	12 6	12 13	12 22	12 34	12 51
26	12 5	12 7	12 9	12 11	12 13	12 14	12 16	12 18	12 21	12 22	12 24	12 26	12 29	12 32	12 37
27	13 3	13 0	12 58	12 56	12 54	12 52	12 49	12 47	12 45	12 44	12 41	12 38	12 35	12 30	12 23
28	14 1	13 53	13 46	13 40	13 34	13 29	13 23	13 17	13 9	13 4	12 58	12 50	12 41	12 28	12 9
29	14 59	14 46	14 35	14 25	14 16	14 8	13 58	13 47	13 34	13 26	13 16	13 4	12 48	12 26	11 53
30	15 58	15 39	15 25	15 12	15 0	14 48	14 35	14 20	14 2	13 51	13 37	13 20	12 58	12 25	11 31
31	16 57	16 34	16 16	16 0	15 45	15 31	15 16	14 57	14 34	14 20	14 3	13 41	13 11	12 25	10 50

Länge λ	Präzession in Länge p_λ — Breite β: 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Präz. in Br. p_β — Länge λ	Präzession p_β	Diff.
0°	50″.268	″.259	″.251	″.243	″.235	50″.227	″.218	″.210	″.202	″.193	0°	+0″.046	81
10	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	10	+0.127	76
20	.268	.260	.253	.245	.238	.230	.223	.215	.208	.200	20	+0.203	71
30	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	30	+0.274	62
40	50.268	.262	.256	.250	.244	50.239	.233	.227	.221	.215	40	+0.336	52
50	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	50	+0.388	41
60	.268	.264	.261	.257	.254	.250	.247	.244	.240	.237	60	+0.429	27
70	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	70	+0.456	13
80	50.268	.267	.266	.266	.265	50.264	.264	.263	.262	.262	80	+0.469	1
90	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	90	+0.468	15
100	.268	.270	.272	.274	.276	.279	.281	.283	.285	.288	100	+0.453	28
110	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	110	+0.425	42
120	50.268	.272	.277	.282	.287	50.291	.296	.301	.306	.311	120	+0.383	54
130	.268	.273	.279	.285	.291	.297	.303	.309	.315	.321	130	+0.329	63
140	.268	.274	.281	.288	.295	.301	.308	.315	.322	.329	140	+0.266	71
150	.268	.275	.282	.290	.297	.305	.313	.320	.328	.335	150	+0.195	78
160	50.268	.275	.283	.291	.299	50.307	.315	.323	.332	.340	160	+0.117	81
170	.268	.276	.284	.292	.300	.309	.317	.325	.333	.342	170	+0.036	82
180	.268	.276	.284	.292	.300	.308	.317	.325	.333	.342	180	−0.046	81
190	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	190	−0.127	76
200	50.268	.275	.282	.290	.297	50.305	.312	.320	.327	.335	200	−0.203	71
210	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	210	−0.274	62
220	.268	.273	.279	.285	.291	.296	.302	.308	.314	.320	220	−0.336	52
230	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	230	−0.388	41
240	50.268	.271	.274	.278	.281	50.285	.288	.291	.295	.298	240	−0.429	27
250	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	250	−0.456	13
260	.268	.268	.269	.269	.270	.271	.271	.272	.273	.273	260	−0.469	1
270	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	270	−0.468	15
280	50.268	.265	.263	.261	.259	50.256	.254	.252	.250	.247	280	−0.453	28
290	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	290	−0.425	42
300	.268	.263	.258	.253	.248	.244	.239	.234	.229	.224	300	−0.383	54
310	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	310	−0.329	63
320	50.268	.261	.254	.247	.240	50.234	.227	.220	.213	.206	320	−0.266	71
330	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	330	−0.195	78
340	.268	.260	.252	.244	.236	.228	.220	.212	.203	.195	340	−0.117	81
350	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	350	−0.036	82
360	50.268	.259	.251	.243	.235	50.227	.218	.210	.202	.193	360	+0.046	

Präzession in Länge p_λ											Präz. in Br. p_β		
Länge	Breite β										Länge	Präzession	
λ	0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	λ	p_β	
0°	50.″268	″.276	″.284	″.292	″.300	50.″308	″.317	″.325	″.333	″.342	0°	+0.″046	81
10	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	10	+0.127	76
20	.268	.275	.282	.290	.297	.305	.312	.320	.327	.335	20	+0.203	71
30	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	30	+0.274	62
40	50.268	.273	.279	.285	.291	50.296	.302	.308	.314	.320	40	+0.336	52
50	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	50	+0.388	41
60	.268	.271	.274	.278	.281	.285	.288	.291	.295	.298	60	+0.429	27
70	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	70	+0.456	13
80	50.268	.268	.269	.269	.270	50.271	.271	.272	.273	.273	80	+0.469	—1
90	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	90	+0.468	15
100	.268	.265	.263	.261	.259	.256	.254	.252	.250	.247	100	+0.453	28
110	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	110	+0.425	42
120	50.268	.263	.258	.253	.248	50.244	.239	.234	.229	.224	120	+0.383	54
130	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	130	+0.329	63
140	.268	.261	.254	.247	.240	.234	.227	.220	.216	.206	140	+0.266	71
150	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	150	+0.195	78
160	50.268	.260	.252	.244	.236	50.228	.220	.212	.203	.195	160	+0.117	81
170	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	170	+0.036	82
180	.268	.259	.251	.243	.235	.227	.218	.210	.202	.193	180	−0.046	81
190	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	190	−0.127	76
200	50.268	.260	.253	.245	.238	50.230	.223	.215	.208	.200	200	−0.203	71
210	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	210	−0.274	62
220	.268	.262	.256	.250	.244	.239	.233	.227	.221	.215	220	−0.336	52
230	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	230	−0.388	41
240	50.268	.264	.261	.257	.254	50.250	.247	.244	.240	.237	240	−0.429	27
250	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	250	−0.456	13
260	.268	.267	.266	.266	.265	.264	.264	.263	.262	.262	260	−0.469	—1
270	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	270	−0.468	15
280	50.268	.270	.272	.274	.276	50.279	.281	.283	.285	.288	280	−0.453	28
290	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	290	−0.425	42
300	.268	.272	.277	.282	.287	.291	.296	.301	.306	.311	300	−0.383	54
310	.268	.273	.279	.285	.291	.297	.303	.309	.315	.321	310	−0.329	63
320	50.268	.274	.281	.288	.295	50.301	.308	.315	.322	.329	320	−0.266	71
330	.268	.275	.282	.290	.297	.305	.313	.320	.328	.335	330	−0.195	78
340	.268	.275	.283	.291	.299	.307	.315	.323	.332	.340	340	−0.117	81
350	.268	.276	.284	.292	.300	.309	.317	.325	.333	.342	350	−0.036	82
360	50.268	.276	.284	.292	.300	50.308	.317	.325	.333	.342	360	+0.046	

Hilfstafeln

Präzession in Rektaszension (p_α) und Deklination (p_δ)

α \ δ	p_α +60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	p_δ
h	s	s	s	s	s	s	s	s	s	s	s	s	s	″
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	n	ψ	$\log \pi$	Π	ε
1900.0	3.07234 s	20.0468″	1.33646 s	50.2564″	9.67309	173° 57′.06	23° 27′ 8″.26
1905.0	3.07243	20.0464	1.33643	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	1.33640	50.2586	9.67302	174 2.53	23 27 3.57
1915.0	3.07262	20.0456	1.33637	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	1.33634	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	1.33632	50.2620	9.67293	174 10.75	23 26 56.54
1930.0	3.07289	20.0443	1.33629	50.2631	9.67290	174 13.49	23 26 54.20
1935.0	3.07299	20.0439	1.33626	50.2642	9.67287	174 16.23	23 26 51.86
1940.0	3.07308	20.0434	1.33623	50.2653	9.67284	174 18.97	23 26 49.52
1945.0	3.07317	20.0430	1.33620	50.2664	9.67281	174 21.71	23 26 47.17
1950.0	3.07327	20.0426	1.33617	50.2675	9.67278	174 24.45	23 26 44.83

′	″	°	′	″	°	″	°	″	°
0	0.0	0.000	3	0.0	0.050	0.000	0.00000	1.800	0.00050
	3.6	01		3.6	51	036	01	836	51
	7.2	02		7.2	52	072	02	872	52
	10.8	03		10.8	53	108	03	908	53
	14.4	04		14.4	54	144	04	944	54
0	18.0	0.005	3	18.0	0.055	0.180	0.00005	1.980	0.00055
	21.6	06		21.6	56	216	06	2.016	56
	25.2	07		25.2	57	252	07	052	57
	28.8	08		28.8	58	288	08	088	58
	32.4	09		32.4	59	324	09	124	59
0	36.0	0.010	3	36.0	0.060	0.360	0.00010	2.160	0.00060
	39.6	11		39.6	61	396	11	196	61
	43.2	12		43.2	62	432	12	232	62
	46.8	13		46.8	63	468	13	268	63
	50.4	14		50.4	64	504	14	304	64
	54.0	0.015		54.0	0.065	0.540	0.00015	2.340	0.00065
0	57.6	16	3	57.6	66	576	16	376	66
1	1.2	17	4	1.2	67	612	17	412	67
	4.8	18		4.8	68	648	18	448	68
	8.4	19		8.4	69	684	19	484	69
1	12.0	0.020	4	12.0	0.070	0.720	0.00020	2.520	0.00070
	15.6	21		15.6	71	756	21	556	71
	19.2	22		19.2	72	792	22	592	72
	22.8	23		22.8	73	828	23	628	73
	26.4	24		26.4	74	864	24	664	74
1	30.0	0.025	4	30.0	0.075	0.900	0.00025	2.700	0.00075
	33.6	26		33.6	76	936	26	736	76
	37.2	27		37.2	77	0.972	27	772	77
	40.8	28		40.8	78	1.008	28	808	78
	44.4	29		44.4	79	044	29	844	79
1	48.0	0.030	4	48.0	0.080	1.080	0.00030	2.880	0.00080
	51.6	31		51.6	81	116	31	916	81
	55.2	32		55.2	82	152	32	952	82
1	58.8	33	4	58.8	83	188	33	2.988	83
2	2.4	34	5	2.4	84	224	34	3.024	84
	6.0	0.035		6.0	0.085	1.260	0.00035	060	0.00085
	9.6	36		9.6	86	296	36	096	86
	13.2	37		13.2	87	332	37	132	87
	16.8	38		16.8	88	368	38	168	88
	20.4	39		20.4	89	404	39	204	89
2	24.0	0.040	5	24.0	0.090	1.440	0.00040	3.240	0.00090
	27.6	41		27.6	91	476	41	276	91
	31.2	42		31.2	92	512	42	312	92
	34.8	43		34.8	93	548	43	348	93
	38.4	44		38.4	94	584	44	384	94
2	42.0	0.045	5	42.0	0.095	1.620	0.00045	3.420	0.00095
	45.6	46		45.6	96	656	46	456	96
	49.2	47		49.2	97	692	47	492	97
	52.8	48		52.8	98	728	48	528	98
2	56.4	49	5	56.4	99	764	49	564	99
3	0.0	0.050	6	0.0	0.100	1.800	0.00050	3.600	0.00100

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0.	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittleren Zeit zu addieren.

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion
ist von der Sternzeit
zu subtrahieren.

Verwandlung von mittlerer Zeit in Sternzeit

Red.	0m	1m	2m	3m	Red.
s	h m s	h m s	h m s	h m s	s
0	0 0 0.0	6 5 14.5	12 10 29.1	18 15 43.6	0
1	6 5.2	11 19.8	16 34.3	21 48.8	1
2	12 10.5	17 25.0	22 39.6	27 54.1	2
3	18 15.7	23 30.3	28 44.8	33 59.3	3
4	24 21.0	29 35.5	34 50.0	40 4.6	4
5	30 26.2	35 40.7	40 55.3	46 9.8	5
6	36 31.5	41 46.0	47 0.5	52 15.1	6
7	42 36.7	47 51.2	53 5.8	18 58 20.3	7
8	48 41.9	6 53 56.5	12 59 11.0	19 4 25.5	8
9	0 54 47.2	7 0 1.7	13 5 16.2	10 30.8	9
10	1 0 52.4	6 7.0	11 21.5	16 36.0	10
11	6 57.7	12 12.2	17 26.7	22 41.3	11
12	13 2.9	18 17.4	23 32.0	28 46.5	12
13	19 8.1	24 22.7	29 37.2	34 51.8	13
14	25 13.4	30 27.9	35 42.5	40 57.0	14
15	31 18.6	36 33.2	41 47.7	47 2.2	15
16	37 23.9	42 38.4	47 52.9	53 7.5	16
17	43 29.1	48 43.7	13 53 58.2	19 59 12.7	17
18	49 34.4	7 54 48.9	14 0 3.4	20 5 18.0	18
19	1 55 39.6	8 0 54.1	6 8.7	11 23.2	19
20	2 1 44.8	6 59.4	12 13.9	17 28.4	20
21	7 50.1	13 4.6	18 19.2	23 33.7	21
22	13 55.3	19 9.9	24 24.4	29 38.9	22
23	20 0.6	25 15.1	30 29.6	35 44.2	23
24	26 5.8	31 20.3	36 34.9	41 49.4	24
25	32 11.1	37 25.6	42 40.1	47 54.7	25
26	38 16.3	43 30.8	48 45.4	20 53 59.9	26
27	44 21.5	49 36.1	14 54 50.6	21 0 5.1	27
28	50 26.8	8 55 41.3	15 0 55.9	6 10.4	28
29	2 56 32.0	9 1 46.6	7 1.1	12 15.6	29
30	3 2 37.3	7 51.8	13 6.3	18 20.9	30
31	8 42.5	13 57.0	19 11.6	24 26.1	31
32	14 47.8	20 2.3	25 16.8	30 31.4	32
33	20 53.0	26 7.5	31 22.1	36 36.6	33
34	26 58.2	32 12.8	37 27.3	42 41.8	34
35	33 3.5	38 18.0	43 32.5	48 47.1	35
36	39 8.7	44 23.3	49 37.8	21 54 52.3	36
37	45 14.0	50 28.5	15 55 43.0	22 0 57.6	37
38	51 19.2	9 56 33.7	16 1 48.3	7 2.8	38
39	3 57 24.4	10 2 39.0	7 53.5	13 8.0	39
40	4 3 29.7	8 44.2	13 58.8	19 13.3	40
41	9 34.9	14 49.5	20 4.0	25 18.5	41
42	15 40.2	20 54.7	26 9.2	31 23.8	42
43	21 45.4	27 0.0	32 14.5	37 29.0	43
44	27 50.7	33 5.2	38 19.7	43 34.3	44
45	33 55.9	39 10.4	44 25.0	49 39.5	45
46	40 1.1	45 15.7	50 30.2	22 55 44.7	46
47	46 6.4	51 20.9	16 56 35.5	23 1 50.0	47
48	52 11.6	10 57 26.2	17 2 40.7	7 55.2	48
49	4 58 16.9	11 3 31.4	8 45.9	14 0.5	49
50	5 4 22.1	9 36.6	14 51.2	20 5.7	50
51	10 27.4	15 41.9	20 56.4	26 11.0	51
52	16 32.6	21 47.1	27 1.7	32 16.2	52
53	22 37.8	27 52.4	33 6.9	38 21.4	53
54	28 43.1	33 57.6	39 12.1	44 26.7	54
55	34 48.3	40 2.9	45 17.4	50 31.9	55
56	40 53.6	46 8.1	51 22.6	23 56 37.2	56
57	46 58.8	52 13.3	17 57 27.9	24 2 42.4	57
58	53 4.0	11 58 18.6	18 3 33.1	8 47.7	58
59	5 59 9.3	12 4 23.8	18 9 38.4	24 14 52.9	59

Die Reduktion ist zur mittleren Zeit zu addieren.

Red.		Red.	
s	m s	s	m s
0.00	0 0.0	0.50	3 2.6
01	3.7	51	6.3
02	7.3	52	9.9
03	11.0	53	13.6
04	14.6	54	17.2
0.05	18.3	0.55	20.9
06	21.9	56	24.5
07	25.6	57	28.2
08	29.2	58	31.8
09	32.9	59	35.5
0.10	36.5	0.60	39.1
11	40.2	61	42.8
12	43.8	62	46.5
13	47.5	63	50.1
14	51.1	64	53.8
0.15	54.8	0.65	3 57.4
16	0 58.4	66	4 1.1
17	1 2.1	67	4.7
18	5.7	68	8.4
19	9.4	69	12.0
0.20	13.0	0.70	15.7
21	16.7	71	19.3
22	20.4	72	23.0
23	24.0	73	26.6
24	27.7	74	30.3
0.25	31.3	0.75	33.9
26	35.0	76	37.6
27	38.6	77	41.2
28	42.3	78	44.9
29	45.9	79	48.5
0.30	49.6	0.80	52.2
31	53.2	81	55.8
32	1 56.9	82	4 59.5
33	2 0.5	83	5 3.2
34	4.2	84	6.8
0.35	7.8	0.85	10.5
36	11.5	86	14.1
37	15.1	87	17.8
38	18.8	88	21.4
39	22.4	89	25.1
0.40	26.1	0.90	28.7
41	29.7	91	32.4
42	33.4	92	36.0
43	37.1	93	39.7
44	40.7	94	43.3
0.45	44.4	0.95	47.0
46	48.0	96	50.6
47	51.7	97	54.3
48	55.3	98	5 57.9
0.49	2 59.0	0.99	6 1.6

Red.		Red.		Red.	
s	s	s	s	s	s
0.000		0.003		0.006	
	0.2		1.3		2.4
001		004		007	
	0.5		1.6		2.7
002		005		008	
	0.9		2.0		3.1
003		006		009	
	1.3		2.4		3.5
0.004		0.007		0.010	
					3.8

Red.	0^m	1^m	2^m	3^m	Red.
s	h m s	h m s	h m s	h m s	s
0	0 0 0.0	6 6 14.5	12 12 29.1	18 18 43.6	0
1	6 6.2	12 20.8	18 35.3	24 49.9	1
2	12 12.5	18 27.0	24 41.6	30 56.1	2
3	18 18.7	24 33.3	30 47.8	37 2.3	3
4	24 25.0	30 39.5	36 54.0	43 8.6	4
5	30 31.2	36 45.7	43 0.3	49 14.8	5
6	36 37.5	42 52.0	49 6.5	18 55 21.1	6
7	42 43.7	48 58.2	12 55 12.8	19 1 27.3	7
8	48 49.9	6 55 4.5	13 1 19.0	7 33.5	8
9	0 54 56.2	7 1 10.7	7 25.3	13 39.8	9
10	1 1 2.4	7 17.0	13 31.5	19 46.0	10
11	7 8.7	13 23.2	19 37.7	25 52.3	11
12	13 14.9	19 29.4	25 44.0	31 58.5	12
13	19 21.1	25 35.7	31 50.2	38 4.8	13
14	25 27.4	31 41.9	37 56.5	44 11.0	14
15	31 33.6	37 48.2	44 2.7	50 17.2	15
16	37 39.9	43 54.4	50 8.9	19 56 23.5	16
17	43 46.1	50 0.7	13 56 15.2	20 2 29.7	17
18	49 52.4	7 56 6.9	14 2 21.4	8 36.0	18
19	1 55 58.6	8 2 13.1	8 27.7	14 42.2	19
20	2 2 4.8	8 19.4	14 33.9	20 48.5	20
21	8 11.1	14 25.6	20 40.2	26 54.7	21
22	14 17.3	20 31.9	26 46.4	33 0.9	22
23	20 23.6	26 38.1	32 52.6	39 7.2	23
24	26 29.8	32 44.4	38 58.9	45 13.4	24
25	32 36.1	38 50.6	45 5.1	51 19.7	25
26	38 42.3	44 56.8	51 11.4	20 57 25.9	26
27	44 48.5	51 3.1	14 57 17.6	21 3 32.2	27
28	50 54.8	8 57 9.3	15 3 23.9	9 38.4	28
29	2 57 1.0	9 3 15.6	9 30.1	15 44.6	29
30	3 3 7.3	9 21.8	15 36.3	21 50.9	30
31	9 13.5	15 28.0	21 42.6	27 57.1	31
32	15 19.8	21 34.3	27 48.8	34 3.4	32
33	21 26.0	27 40.5	33 55.1	40 9.6	33
34	27 32.2	33 46.8	40 1.3	46 15.8	34
35	33 38.5	39 53.0	46 7.6	52 22.1	35
36	39 44.7	45 59.3	52 13.8	21 58 28.3	36
37	45 51.0	52 5.5	15 58 20.0	22 4 34.6	37
38	51 57.2	9 58 11.7	16 4 26.3	10 40.8	38
39	3 58 3.4	10 4 18.0	10 32.5	16 47.1	39
40	4 4 9.7	10 24.2	16 38.8	22 53.3	40
41	10 15.9	16 30.5	22 45.0	28 59.5	41
42	16 22.2	22 36.7	28 51.2	35 5.8	42
43	22 28.4	28 43.0	34 57.5	41 12.0	43
44	28 34.7	34 49.2	41 3.7	47 18.3	44
45	34 40.9	40 55.4	47 10.0	53 24.5	45
46	40 47.1	47 1.7	53 16.2	22 59 30.8	46
47	46 53.4	53 7.9	16 59 22.5	23 5 37.0	47
48	52 59.6	10 59 14.2	17 5 28.7	11 43.2	48
49	4 59 5.9	11 5 20.4	11 34.9	17 49.5	49
50	5 5 12.1	11 26.7	17 41.2	23 55.7	50
51	11 18.4	17 32.9	23 47.4	30 2.0	51
52	17 24.6	23 39.1	29 53.7	36 8.2	52
53	23 30.8	29 45.4	35 59.9	42 14.5	53
54	29 37.1	35 51.6	42 6.2	48 20.7	54
55	35 43.3	41 57.9	48 12.4	23 54 26.9	55
56	41 49.6	48 4.1	17 54 18.6	24 0 33.2	56
57	47 55.8	11 54 10.3	18 0 24.9	6 39.4	57
58	5 54 2.1	12 0 16.6	6 31.1	12 45.7	58
59	6 0 8.3	12 6 22.8	18 12 37.4	24 18 51.9	59

Die Reduktion ist von der Sternzeit zu subtrahieren.

Red.		Red.	
s	m s	s	m s
0.00	0 0.0	0.50	3 3.1
01	3.7	51	6.8
02	7.3	52	10.4
03	11.0	53	14.1
04	14.6	54	17.8
0.05	18.3	0.55	21.4
06	22.0	56	25.1
07	25.6	57	28.8
08	29.3	58	32.4
09	33.0	59	36.1
0.10	36.6	0.60	39.7
11	40.3	61	43.4
12	43.9	62	47.1
13	47.6	63	50.7
14	51.3	64	54.4
0.15	54.9	0.65	3 58.1
16	0 58.6	66	4 1.7
17	1 2.3	67	5.4
18	5.9	68	9.0
19	9.6	69	12.7
0.20	13.2	0.70	16.4
21	16.9	71	20.0
22	20.6	72	23.7
23	24.2	73	27.4
24	27.9	74	31.0
0.25	31.6	0.75	34.7
26	35.2	76	38.3
27	38.9	77	42.0
28	42.5	78	45.7
29	46.2	79	49.3
0.30	49.9	0.80	53.0
31	53.5	81	4 56.7
32	1 57.2	82	5 0.3
33	2 0.9	83	4.0
34	4.5	84	7.6
0.35	8.2	0.85	11.3
36	11.8	86	15.0
37	15.5	87	18.6
38	19.2	88	22.3
39	22.8	89	26.0
0.40	26.5	0.90	29.6
41	30.2	91	33.3
42	33.8	92	36.9
43	37.5	93	40.6
44	41.1	94	44.3
0.45	44.8	0.95	47.9
46	48.5	96	51.6
47	52.1	97	55.3
48	55.8	98	5 58.9
0.49	2 59.5	0.99	6 2.6

Red.		Red.		Red.	
s	s	s	s	s	s
0.000		0.003		0.006	
	0.2		1.3		2.4
001		004		007	
	0.5		1.6		2.7
002		005		008	
	0.9		2.0		3.1
003		006		009	
	1.3		2.4		3.5
0.004		0.007		0.010	
					3.8

	0^h	1^h	2^h	3^h	4^h	5^h		
m	d	d	d	d	d	d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	000694	042361	084028	125694	167361	209028	1	000012
2	001389	043056	084722	126389	168056	209722	2	000023
3	002083	043750	085417	127083	168750	210417	3	000035
4	002778	044444	086111	127778	169444	211111	4	000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	004167	045833	087500	129167	170833	212500	6	000069
7	004861	046528	088194	129861	171528	213194	7	000081
8	005556	047222	088889	130556	172222	213889	8	000093
9	006250	047917	089583	131250	172917	214583	9	000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	007639	049306	090972	132639	174306	215972	11	000127
12	008333	050000	091667	133333	175000	216667	12	000139
13	009028	050694	092361	134028	175694	217361	13	000150
14	009722	051389	093056	134722	176389	218056	14	000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	011111	052778	094444	136111	177778	219444	16	000185
17	011806	053472	095139	136806	178472	220139	17	000197
18	012500	054167	095833	137500	179167	220833	18	000208
19	013194	054861	096528	138194	179861	221528	19	000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	014583	056250	097917	139583	181250	222917	21	000243
22	015278	056944	098611	140278	181944	223611	22	000255
23	015972	057639	099306	140972	182639	224306	23	000266
24	016667	058333	100000	141667	183333	225000	24	000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	018056	059722	101389	143056	184722	226389	26	000301
27	018750	060417	102083	143750	185417	227083	27	000313
28	019444	061111	102778	144444	186111	227778	28	000324
29	020139	061806	103472	145139	186806	228472	29	000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	021528	063194	104861	146528	188194	229861	31	000359
32	022222	063889	105556	147222	188889	230556	32	000370
33	022917	064583	106250	147917	189583	231250	33	000382
34	023611	065278	106944	148611	190278	231944	34	000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	025000	066667	108333	150000	191667	233333	36	000417
37	025694	067361	109028	150694	192361	234028	37	000428
38	026389	068056	109722	151389	193056	234722	38	000440
39	027083	068750	110417	152083	193750	235417	39	000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	028472	070139	111806	153472	195139	236806	41	000475
42	029167	070833	112500	154167	195833	237500	42	000486
43	029861	071528	113194	154861	196528	238194	43	000498
44	030556	072222	113889	155556	197222	238889	44	000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	031944	073611	115278	156944	198611	240278	46	000532
47	032639	074306	115972	157639	199306	240972	47	000544
48	033333	075000	116667	158333	200000	241667	48	000556
49	034028	075694	117361	159028	200694	242361	49	000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	035417	077083	118750	160417	202083	243750	51	000590
52	036111	077778	119444	161111	202778	244444	52	000602
53	036806	078472	120139	161806	203472	245139	53	000613
54	037500	079167	120833	162500	204167	245833	54	000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	038889	080556	122222	163889	205556	247222	56	000648
57	039583	081250	122917	164583	206250	247917	57	000660
58	040278	081944	123611	165278	206944	248611	58	000671
59	0.040972	0.082639	0.124306	0.165972	0.207639	0.249306	59	0.000683

m	6^h d	7^h d	8^h d	9^h d	10^h d	11^h d	s	d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	250694	292361	334028	375694	417361	459028	1	000012
2	251389	293056	334722	376389	418056	459722	2	000023
3	252083	293750	335417	377083	418750	460417	3	000035
4	252778	294444	336111	377778	419444	461111	4	000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	254167	295833	337500	379167	420833	462500	6	000069
7	254861	296528	338194	379861	421528	463194	7	000081
8	255556	297222	338889	380556	422222	463889	8	000093
9	256250	297917	339583	381250	422917	464583	9	000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	257639	299306	340972	382639	424306	465972	11	000127
12	258333	300000	341667	383333	425000	466667	12	000139
13	259028	300694	342361	384028	425694	467361	13	000150
14	259722	301389	343056	384722	426389	468056	14	000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	261111	302778	344444	386111	427778	469444	16	000185
17	261806	303472	345139	386806	428472	470139	17	000197
18	262500	304167	345833	387500	429167	470833	18	000208
19	263194	304861	346528	388194	429861	471528	19	000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	264583	306250	347917	389583	431250	472917	21	000243
22	265278	306944	348611	390278	431944	473611	22	000255
23	265972	307639	349306	390972	432639	474306	23	000266
24	266667	308333	350000	391667	433333	475000	24	000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	268056	309722	351389	393056	434722	476389	26	000301
27	268750	310417	352083	393750	435417	477083	27	000313
28	269444	311111	352778	394444	436111	477778	28	000324
29	270139	311806	353472	395139	436806	478472	29	000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	271528	313194	354861	396528	438194	479861	31	000359
32	272222	313889	355556	397222	438889	480556	32	000370
33	272917	314583	356250	397917	439583	481250	33	000382
34	273611	315278	356944	398611	440278	481944	34	000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	275000	316667	358333	400000	441667	483333	36	000417
37	275694	317361	359028	400694	442361	484028	37	000428
38	276389	318056	359722	401389	443056	484722	38	000440
39	277083	318750	360417	402083	443750	485417	39	000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	278472	320139	361806	403472	445139	486806	41	000475
42	279167	320833	362500	404167	445833	487500	42	000486
43	279861	321528	363194	404861	446528	488194	43	000498
44	280556	322222	363889	405556	447222	488889	44	000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	281944	323611	365278	406944	448611	490278	46	000532
47	282639	324306	365972	407639	449306	490972	47	000544
48	283333	325000	366667	408333	450000	491667	48	000556
49	284028	325694	367361	409028	450694	492361	49	000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	285417	327083	368750	410417	452083	493750	51	000590
52	286111	327778	369444	411111	452778	494444	52	000602
53	286806	328472	370139	411806	453472	495139	53	000613
54	287500	329167	370833	412500	454167	495833	54	000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	288889	330556	372222	413889	455556	497222	56	000648
57	289583	331250	372917	414583	456250	497917	57	000660
58	290278	331944	373611	415278	456944	498611	58	000671
59	0.290972	0.332639	0.374306	0.415972	0.457639	0.499306	59	0.000683

I. Anzahl der am 0. Januar, 12h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am 0. eines jeden Monats, 12h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

I. Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1]) Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage.

Ia. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2])	31[2])	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern.

[2]) In den Jahren 1700, 1800, 1900 um 1 zu vergrößern.

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400 410	441	470	501	531	562	592	623	654	684	715	745
1861	776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401 141	172	200	231	261	292	322	353	384	414	445	475
1863	506	537	565	596	626	657	687	718	749	779	810	840
1864	871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402 237	268	296	327	357	388	418	449	480	510	541	571
1866	602	633	661	692	722	753	783	814	845	875	906	936
1867	967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403 332	363	392	423	453	484	514	545	576	606	637	667
1869	698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404 063	094	122	153	183	214	244	275	306	336	367	397
1871	428	459	487	518	548	579	609	640	671	701	732	762
1872	793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405 159	190	218	249	279	310	340	371	402	432	463	493
1874	524	555	583	614	644	675	705	736	767	797	828	858
1875	889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406 254	285	314	345	375	406	436	467	498	528	559	589
1877	620	651	679	710	740	771	801	832	863	893	924	954
1878	985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407 350	381	409	440	470	501	531	562	593	623	654	684
1880	715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408 081	112	140	171	201	232	262	293	324	354	385	415
1882	446	477	505	536	566	597	627	658	689	719	750	780
1883	811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409 176	207	236	267	297	328	358	389	420	450	481	511
1885	542	573	601	632	662	693	723	754	785	815	846	876
1886	907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410 272	303	331	362	392	423	453	484	515	545	576	606
1888	637	668	697	728	758	789	819	850	881	911	942	972
1889	2411 003	034	062	093	123	154	184	215	246	276	307	337
1890	368	399	427	458	488	519	549	580	611	641	672	702
1891	733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412 098	129	158	189	219	250	280	311	342	372	403	433
1893	464	495	523	554	584	615	645	676	707	737	768	798
1894	829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413 194	225	253	284	314	345	375	406	437	467	498	528
1896	559	590	619	650	680	711	741	772	803	833	864	894
1897	925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414 290	321	349	380	410	441	471	502	533	563	594	624
1899	655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415 020	051	079	110	140	171	201	232	263	293	324	354
1901	385	416	444	475	505	536	566	597	628	658	689	719
1902	750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416 115	146	174	205	235	266	296	327	358	388	419	449
1904	480	511	540	571	601	632	662	693	724	754	785	815
1905	846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417 211	242	270	301	331	362	392	423	454	484	515	545
1907	576	607	635	666	696	727	757	788	819	849	880	910
1908	941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418 307	338	366	397	427	458	488	519	550	580	611	641
1910	672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419 037	068	096	127	157	188	218	249	280	310	341	371
1912	402	433	462	493	523	554	584	615	646	676	707	737
1913	768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420 133	164	192	223	253	284	314	345	376	406	437	467
1915	498	529	557	588	618	649	679	710	741	771	802	832
1916	863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421 229	260	288	319	349	380	410	441	472	502	533	563
1918	594	625	653	684	714	745	775	806	837	867	898	928
1919	959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422 324	355	384	415	445	476	506	537	568	598	629	659
1921	690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423 055	086	114	145	175	206	236	267	298	328	359	389
1923	420	451	479	510	540	571	601	632	663	693	724	754
1924	785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424 151	182	210	241	271	302	332	363	394	424	455	485
1926	516	547	575	606	636	667	697	728	759	789	820	850
1927	881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425 246	277	306	337	367	398	428	459	490	520	551	581
1929	612	643	671	702	732	763	793	824	855	885	916	946
1930	977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426 342	373	401	432	462	493	523	554	585	615	646	676
1932	707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427 073	104	132	163	193	224	254	285	316	346	377	407
1934	438	469	497	528	558	589	619	650	681	711	742	772
1935	803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428 168	199	228	259	289	320	350	381	412	442	473	503
1937	534	565	593	624	654	685	715	746	777	807	838	868
1938	899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429 264	295	323	354	384	415	445	476	507	537	568	598

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1940	2429 629	660	689	720	750	781	811	842	873	903	934	964
1941	995	*026	*054	*085	*115	*146	*176	*207	*238	*268	*299	*329
1942	2430 360	391	419	450	480	511	541	572	603	633	664	694
1943	725	756	784	815	845	876	906	937	968	998	*029	*059
1944	2431 090	121	150	181	211	242	272	303	334	364	395	425
1945	456	487	515	546	576	607	637	668	699	729	760	790
1946	821	852	880	911	941	972	*002	*033	*064	*094	*125	*155
1947	2432 186	217	245	276	306	337	367	398	429	459	490	520
1948	551	582	611	642	672	703	733	764	795	825	856	886
1949	917	948	976	*007	*037	*068	*098	*129	*160	*190	*221	*251
1950	2433 282	313	341	372	402	433	463	494	525	555	586	616
1951	647	678	706	737	767	798	828	859	890	920	951	981
1952	2434 012	043	072	103	133	164	194	225	256	286	317	347
1953	378	409	437	468	498	529	559	590	621	651	682	712
1954	743	774	802	833	863	894	924	955	986	*016	*047	*077
1955	2435 108	139	167	198	228	259	289	320	351	381	412	442
1956	473	504	533	564	594	625	655	686	717	747	778	808
1957	839	870	898	929	959	990	*020	*051	*082	*112	*143	*173
1958	2436 204	235	263	294	324	355	385	416	447	477	508	538
1959	569	600	628	659	689	720	750	781	812	842	873	903
1960	934	965	994	*025	*055	*086	*116	*147	*178	*208	*239	*269
1961	2437 300	331	359	390	420	451	481	512	543	573	604	634
1962	665	696	724	755	785	816	846	877	908	938	969	999
1963	2438 030	061	089	120	150	181	211	242	273	303	334	364
1964	395	426	455	486	516	547	577	608	639	669	700	730
1965	761	792	820	851	881	912	942	973	*004	*034	*065	*095
1966	2439 126	157	185	216	246	277	307	338	369	399	430	460
1967	491	522	550	581	611	642	672	703	734	764	795	825
1968	856	887	916	947	977	*008	*038	*069	*100	*130	*161	*191
1969	2440 222	253	281	312	342	373	403	434	465	495	526	556
1970	587	618	646	677	707	738	768	799	830	860	891	921
1971	952	983	*011	*042	*072	*103	*133	*164	*195	*225	*256	*286
1972	2441 317	348	377	408	438	469	499	530	561	591	622	652
1973	683	714	742	773	803	834	864	895	926	956	987	*017
1974	2442 048	079	107	138	168	199	229	260	291	321	352	382
1975	413	444	472	503	533	564	594	625	656	686	717	747
1976	778	809	838	869	899	930	960	991	*022	*052	*083	*113
1977	2443 144	175	203	234	264	295	325	356	387	417	448	478
1978	509	540	568	599	629	660	690	721	752	782	813	843
1979	2443 874	905	933	964	994	*025	*055	*086	*117	*147	*178	*208

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi; \qquad \rho \cos \varphi' = c \cos \varphi$

φ	log s		log c		φ	log s		log c	
± 0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	.9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

δ \ φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
−20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
−10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
− 1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

δ \ φ	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
−20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
−10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
− 1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ 1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.1	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag		Geographische Breite										
		+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1945		m	m	m	m	m	m	m	m	m	m	m
Jan.	1	∓62.6	∓57.9	∓53.0	∓47.9	∓42.5	∓36.7	∓30.5	∓23.8	∓16.5	∓8.7	0.0
	11	∓58.5	∓54.0	∓49.5	∓44.6	∓39.6	∓34.1	∓28.3	∓22.0	∓15.4	∓8.0	0.0
	21	∓52.1	∓48.1	∓44.0	∓39.7	∓35.2	∓30.3	∓25.1	∓19.6	∓13.7	∓7.1	0.0
	31	∓44.3	∓40.9	∓37.3	∓33.6	∓29.8	∓25.7	∓21.2	∓16.5	∓11.5	∓6.0	0.0
Febr.	10	∓35.5	∓32.8	∓29.9	∓26.9	∓23.8	∓20.5	∓16.9	∓13.1	∓ 9.1	∓4.8	0.0
	20	∓26.2	∓24.2	∓22.0	∓19.8	∓17.5	∓15.1	∓12.4	∓ 9.6	∓ 6.6	∓3.5	0.0
März	2	∓16.6	∓15.3	∓13.9	∓12.5	∓11.0	∓ 9.5	∓ 7.8	∓ 6.0	∓ 4.1	∓2.2	0.0
	12	∓ 6.9	∓ 6.4	∓ 5.8	∓ 5.2	∓ 4.5	∓ 3.9	∓ 3.2	∓ 2.5	∓ 1.7	∓0.9	0.0
	22	± 2.8	± 2.6	± 2.4	± 2.3	± 2.0	± 1.7	± 1.4	± 1.1	± 0.8	±0.3	0.0
April	1	±12.4	±11.5	±10.5	± 9.6	± 8.5	± 7.2	± 6.0	± 4.7	± 3.3	±1.6	0.0
	11	±22.1	±20.4	±18.7	±16.9	±14.9	±12.7	±10.5	± 8.3	± 5.7	±2.9	0.0
	21	±31.6	±29.1	±26.7	±24.1	±21.2	±18.2	±15.1	±11.8	± 8.2	±4.2	0.0
Mai	1	±40.7	±37.6	±34.4	±31.1	±27.5	±23.6	±19.7	±15.3	±10.7	±5.5	0.0
	11	±49.3	±45.6	±41.7	±37.7	±33.4	±28.7	±23.9	±18.6	±13.0	±6.7	0.0
	21	±56.9	±52.8	±48.3	±43.5	±38.7	±33.3	±27.7	±21.7	±15.1	±7.8	0.0
	31	±63.0	±58.5	±53.6	±48.4	±43.0	±37.1	±30.9	±24.2	±16.8	±8.8	0.0
Juni	10	±67.2	±62.3	±57.2	±51.7	±45.9	±39.6	±33.0	±25.9	±18.0	±9.5	0.0
	20	±68.8	±63.8	±58.6	±52.9	±47.0	±40.7	±33.9	±26.6	±18.5	±9.8	0.0
	30	±67.8	±62.8	±57.8	±52.2	±46.4	±40.1	±33.4	±26.2	±18.2	±9.6	0.0
Juli	10	±64.4	±59.6	±54.7	±49.4	±43.9	±37.9	±31.5	±24.8	±17.2	±9.1	0.0
	20	±58.7	±54.3	±49.9	±45.0	±40.0	±34.5	±28.6	±22.4	±15.6	±8.2	0.0
	30	±51.5	±47.6	±43.7	±39.3	±35.0	±30.1	±25.0	±19.5	±13.5	±7.1	0.0
Aug.	9	±43.3	±40.0	±36.6	±32.9	±29.2	±25.2	±20.9	±16.3	±11.3	±5.9	0.0
	19	±34.4	±31.8	±29.0	±26.1	±23.1	±20.0	±16.6	±12.8	± 8.9	±4.7	0.0
	29	±25.1	±23.2	±21.2	±19.1	±16.8	±14.6	±12.1	± 9.3	± 6.5	±3.4	0.0
Sept.	8	±15.7	±14.4	±13.2	±11.9	±10.5	± 9.1	± 7.5	± 5.8	± 4.0	±2.1	0.0
	18	± 6.2	± 5.6	± 5.1	± 4.6	± 4.1	± 3.6	± 2.9	± 2.3	± 1.6	±0.9	0.0
	28	∓ 3.5	∓ 3.2	∓ 2.9	∓ 2.6	∓ 2.3	∓ 1.9	∓ 1.6	∓ 1.2	∓ 0.9	∓0.4	0.0
Okt.	8	∓13.1	∓12.0	∓10.9	∓ 9.9	∓ 8.7	∓ 7.4	∓ 6.1	∓ 4.8	∓ 3.3	∓1.6	0.0
	18	∓22.6	∓20.8	∓19.0	∓17.1	∓15.1	∓12.9	∓10.6	∓ 8.3	∓ 5.7	∓2.9	0.0
	28	∓31.9	∓29.4	∓26.9	∓24.2	∓21.4	∓18.3	∓15.1	∓11.8	∓ 8.2	∓4.2	0.0
Nov.	7	∓40.8	∓37.7	∓34.5	∓31.1	∓27.5	∓23.5	∓19.5	∓15.2	∓10.5	∓5.5	0.0
	17	∓49.1	∓45.4	∓41.5	∓37.5	∓33.0	∓28.4	∓23.6	∓18.4	∓12.8	∓6.7	0.0
	27	∓56.1	∓51.8	∓47.4	∓42.8	∓37.9	∓32.6	∓27.2	∓21.2	∓14.7	∓7.7	0.0
Dez.	7	∓61.2	∓56.6	∓51.8	∓46.8	∓41.5	∓35.8	∓29.8	∓23.2	∓16.1	∓8.5	0.0
	17	∓63.9	∓59.1	∓54.1	∓48.9	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
	27	∓63.9	∓59.1	∓54.1	∓48.9	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
	37	∓61.0	∓56.4	∓51.6	∓46.6	∓41.3	∓35.6	∓29.6	∓23.2	∓16.1	∓8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag		Geographische Breite										
		+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1945		m	m	m	m	m	m	m	m	m	m	m
Jan.	1	0.0	±4.7	± 9.6	±14.8	±20.5	±26.4	±32.8	±39.5	±46.9	±55.0	±63.8
	11	0.0	±4.4	± 8.9	±13.8	±18.7	±24.3	±30.1	±36.3	±43.0	±50.3	±58.1
	21	0.0	±3.8	± 7.9	±12.1	±16.5	±21.2	±26.3	±31.7	±37.3	±43.5	±50.2
	31	0.0	±3.2	± 6.6	±10.0	±13.7	±17.7	±21.9	±26.3	±30.9	±36.0	±41.4
Febr.	10	0.0	±2.5	± 5.2	± 7.9	±10.8	±14.0	±17.2	±20.6	±24.2	±28.1	±32.3
	20	0.0	±1.8	± 3.8	± 5.7	± 7.8	±10.1	±12.5	±14.9	±17.5	±20.3	±23.2
März	2	0.0	±1.2	± 2.4	± 3.6	± 4.9	± 6.3	± 7.8	± 9.3	±10.9	±12.6	±14.3
	12	0.0	±0.5	± 1.0	± 1.4	± 2.0	± 2.6	± 3.2	± 3.8	± 4.3	± 5.1	± 5.8
	22	0.0	∓0.2	∓ 0.4	∓ 0.7	∓ 0.9	∓ 1.2	∓ 1.5	∓ 1.7	∓ 2.1	∓ 2.4	∓ 2.8
April	1	0.0	∓0.9	∓ 1.8	∓ 2.8	∓ 3.9	∓ 4.9	∓ 6.1	∓ 7.3	∓ 8.6	∓10.0	∓11.3
	11	0.0	∓1.5	∓ 3.2	∓ 5.0	∓ 6.9	∓ 8.7	∓10.7	∓12.9	∓15.2	∓17.6	∓20.1
	21	0.0	∓2.2	∓ 4.6	∓ 7.2	∓ 9.9	∓12.6	∓15.5	∓18.6	∓22.0	∓25.4	∓29.2
Mai	1	0.0	∓3.0	∓ 6.1	∓ 9.4	∓12.9	∓16.5	∓20.3	∓24.4	∓28.8	∓33.4	∓38.4
	11	0.0	∓3.6	∓ 7.4	∓11.5	∓15.8	∓20.3	∓25.0	∓30.2	∓35.8	∓41.6	∓47.9
	21	0.0	∓4.2	∓ 8.7	∓13.4	∓18.5	∓23.9	∓29.6	∓35.8	∓42.5	∓49.6	∓57.4
	31	0.0	∓4.7	∓ 9.8	∓15.2	∓20.9	∓27.1	∓33.6	∓40.7	∓48.3	∓56.7	∓65.9
Juni	10	0.0	∓5.1	∓10.6	∓16.4	∓22.6	∓29.2	∓36.4	∓44.2	∓52.6	∓61.9	∓72.3
	20	0.0	∓5.3	∓10.9	∓16.9	∓23.3	∓30.2	∓37.5	∓45.6	∓54.4	∓64.0	∓75.1
	30	0.0	∓5.2	∓10.7	∓16.6	∓22.9	∓29.6	∓36.9	∓44.7	∓53.3	∓62.7	∓73.5
Juli	10	0.0	∓4.9	∓10.1	∓15.6	∓21.5	∓27.7	∓34.4	∓41.7	∓49.6	∓58.4	∓67.8
	20	0.0	∓4.4	∓ 9.1	∓14.0	∓19.2	∓24.8	∓30.8	∓37.2	∓44.1	∓51.6	∓59.9
	30	0.0	∓3.8	∓ 7.9	∓12.0	∓16.5	∓21.3	∓26.4	∓31.9	∓37.6	∓43.9	∓50.7
Aug.	9	0.0	∓3.2	∓ 6.5	∓ 9.9	∓13.7	∓17.6	∓21.8	∓26.2	∓30.8	∓35.8	∓41.2
	19	0.0	∓2.5	∓ 5.1	∓ 7.7	∓10.7	∓13.7	∓17.0	∓20.4	∓24.0	∓27.8	∓32.0
	29	0.0	∓1.8	∓ 3.7	∓ 5.6	∓ 7.7	∓ 9.9	∓12.2	∓14.7	∓17.2	∓20.0	∓22.9
Sept.	8	0.0	∓1.2	∓ 2.3	∓ 3.5	∓ 4.8	∓ 6.1	∓ 7.6	∓ 9.1	∓10.6	∓12.4	∓14.2
	18	0.0	∓0.5	∓ 0.9	∓ 1.4	∓ 1.9	∓ 2.4	∓ 3.0	∓ 3.6	∓ 4.2	∓ 4.9	∓ 5.6
	28	0.0	±0.2	± 0.5	± 0.7	± 1.0	± 1.3	± 1.5	± 1.8	± 2.2	± 2.5	± 2.8
Okt.	8	0.0	±0.9	± 1.8	± 2.9	± 3.9	± 5.0	± 6.1	± 7.2	± 8.6	± 9.9	±11.2
	18	0.0	±1.6	± 3.2	± 5.0	± 6.8	± 8.7	±10.6	±12.7	±15.1	±17.4	±19.9
	28	0.0	±2.2	± 4.6	± 7.1	± 9.7	±12.5	±15.3	±18.3	±21.7	±25.0	±28.7
Nov.	7	0.0	±2.9	± 6.0	± 9.2	±12.7	±16.2	±20.0	±23.9	±28.3	±32.8	±37.8
	17	0.0	±3.6	± 7.3	±11.3	±15.5	±19.8	±24.5	±29.5	±34.9	±40.5	±46.7
	27	0.0	±4.1	± 8.4	±13.1	±18.0	±23.1	±28.6	±34.5	±40.8	±47.7	±55.1
Dez.	7	0.0	±4.6	± 9.3	±14.5	±19.8	±25.7	±31.9	±38.4	±45.6	±53.3	±61.7
	17	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.5	±48.2	±56.4	±65.7
	27	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.5	±48.2	±56.4	±65.5
	37	0.0	±4.6	± 9.3	±14.4	±19.8	±25.5	±31.7	±38.2	±45.3	±53.1	±61.5

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

t*)	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	∓94.6	∓87.9	∓80.9	∓73.4	∓65.5	∓56.9	∓47.6	∓37.5	∓26.4	∓14.0	0.0
3 30	∓88.5	∓82.2	∓75.6	∓68.5	∓61.0	∓52.9	∓44.2	∓34.8	∓24.4	∓12.9	0.0
3 40	∓82.5	∓76.5	∓70.3	∓63.7	∓56.6	∓49.1	∓41.0	∓32.2	∓22.5	∓11.9	0.0
3 50	∓76.6	∓71.0	∓65.2	∓59.0	∓52.4	∓45.3	∓37.8	∓29.6	∓20.7	∓10.9	0.0
4 0	∓70.8	∓65.6	∓60.1	∓54.4	∓48.2	∓41.7	∓34.7	∓27.2	∓18.9	∓ 9.9	0.0
4 10	∓65.1	∓60.3	∓55.2	∓49.9	∓44.2	∓38.2	∓31.7	∓24.8	∓17.3	∓ 9.0	0.0
4 20	∓59.5	∓55.0	∓50.3	∓45.5	∓40.3	∓34.8	∓28.9	∓22.5	∓15.7	∓ 8.2	0.0
4 30	∓54.0	∓49.9	∓45.6	∓41.2	∓36.5	∓31.4	∓26.1	∓20.4	∓14.1	∓ 7.4	0.0
4 40	∓48.4	∓44.8	∓40.9	∓36.9	∓32.7	∓28.2	∓23.3	∓18.2	∓12.6	∓ 6.6	0.0
4 50	∓43.0	∓39.8	∓36.4	∓32.7	∓29.0	∓24.9	∓20.7	∓16.1	∓11.2	∓ 5.8	0.0
5 0	∓37.7	∓34.8	∓31.8	∓28.6	∓25.3	∓21.8	∓18.1	∓14.1	∓ 9.8	∓ 5.0	0.0
5 10	∓32.4	∓29.9	∓27.3	∓24.6	∓21.7	∓18.7	∓15.5	∓12.1	∓ 8.4	∓ 4.3	0.0
5 20	∓27.1	∓25.0	∓22.8	∓20.6	∓18.2	∓15.6	∓12.9	∓10.1	∓ 7.0	∓ 3.6	0.0
5 30	∓21.9	∓20.2	∓18.4	∓16.6	∓14.7	∓12.6	∓10.4	∓ 8.1	∓ 5.6	∓ 2.9	0.0
5 40	∓16.7	∓15.4	∓14.0	∓12.6	∓11.2	∓ 9.6	∓ 7.9	∓ 6.2	∓ 4.3	∓ 2.2	0.0
5 50	∓11.5	∓10.6	∓ 9.7	∓ 8.7	∓ 7.7	∓ 6.6	∓ 5.5	∓ 4.2	∓ 2.9	∓ 1.5	0.0
6 0	∓ 6.4	∓ 5.8	∓ 5.4	∓ 4.8	∓ 4.2	∓ 3.6	∓ 3.0	∓ 2.3	∓ 1.6	∓ 0.9	0.0
6 10	∓ 1.2	∓ 1.1	∓ 1.0	∓ 0.9	∓ 0.8	∓ 0.7	∓ 0.6	∓ 0.4	∓ 0.3	∓ 0.2	0.0
6 20	± 4.0	± 3.7	± 3.4	± 3.0	± 2.6	± 2.3	± 1.9	± 1.5	± 1.0	± 0.5	0.0
6 30	± 9.1	± 8.4	± 7.7	± 6.9	± 6.1	± 5.3	± 4.4	± 3.4	± 2.4	± 1.2	0.0
6 40	±14.3	±13.2	±12.0	±10.8	± 9.6	± 8.2	± 6.8	± 5.3	± 3.7	± 1.9	0.0
6 50	±19.5	±18.0	±16.4	±14.8	±13.1	±11.2	± 9.3	± 7.2	± 5.0	± 2.6	0.0
7 0	±24.7	±22.8	±20.9	±18.8	±16.6	±14.2	±11.8	± 9.1	± 6.3	± 3.3	0.0
7 10	±30.0	±27.7	±25.3	±22.8	±20.1	±17.3	±14.3	±11.1	± 7.7	± 4.0	0.0
7 20	±35.3	±32.6	±29.7	±26.8	±23.7	±20.3	±16.8	±13.1	± 9.1	± 4.7	0.0
7 30	±40.6	±37.5	±34.3	±30.9	±27.3	±23.4	±19.4	±15.1	±10.5	± 5.5	0.0
7 40	±45.9	±42.5	±38.9	±35.0	±31.0	±26.6	±22.1	±17.2	±12.0	± 6.2	0.0
7 50	±51.4	±47.6	±43.5	±39.2	±34.7	±29.9	±24.8	±19.3	±13.5	± 7.0	0.0
8 0	±56.9	±52.7	±48.2	±43.5	±38.5	±33.2	±27.6	±21.5	±15.0	± 7.8	0.0
8 10	±62.5	±57.9	±53.0	±47.9	±42.4	±36.6	±30.4	±23.8	±16.6	± 8.6	0.0
8 20	±68.2	±63.2	±57.9	±52.3	±46.4	±40.1	±33.3	±26.1	±18.2	± 9.5	0.0
8 30	±74.0	±68.5	±62.9	±56.9	±50.5	±43.7	±36.4	±28.5	±19.8	±10.5	0.0
8 40	±79.8	±74.0	±67.9	±61.5	±54.7	±47.3	±39.5	±30.9	±21.6	±11.4	0.0
8 50	±85.8	±79.6	±73.1	±66.3	±59.0	±51.1	±42.7	±33.5	±23.5	±12.5	0.0
9 0	±91.9	±85.3	±78.4	±71.2	±63.4	±55.0	±46.0	±36.3	±25.5	±13.5	0.0

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

t*)	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	±7.7	±16.1	±25.2	±35.1	±46.1	±58.4	±72.5	±89.1	±109.7	±138.1
3 30	0.0	±7.1	±14.7	±22.9	±31.8	±41.6	±52.4	±64.5	±78.3	± 94.5	±114.3
3 40	0.0	±6.5	±13.4	±20.9	±28.9	±37.6	±47.2	±57.7	±69.4	± 82.7	± 98.2
3 50	0.0	±5.9	±12.2	±19.0	±26.2	±34.0	±42.5	±51.7	±61.9	± 73.3	± 86.1
4 0	0.0	±5.4	±11.1	±17.2	±23.7	±30.8	±38.2	±46.3	±55.2	± 65.0	± 76.0
4 10	0.0	±4.9	±10.1	±15.6	±21.4	±27.7	±34.4	±41.6	±49.4	± 57.9	± 67.3
4 20	0.0	±4.5	± 9.1	±14.0	±19.2	±24.8	±30.8	±37.2	±44.0	± 51.5	± 59.6
4 30	0.0	±4.0	± 8.1	±12.5	±17.2	±22.2	±27.5	±33.1	±39.1	± 45.7	± 52.7
4 40	0.0	±3.5	± 7.3	±11.2	±15.3	±19.7	±24.3	±29.3	±34.5	± 40.2	± 46.3
4 50	0.0	±3.1	± 6.4	± 9.8	±13.4	±17.3	±21.4	±25.6	±30.2	± 35.1	± 40.4
5 0	0.0	±2.7	± 5.5	± 8.5	±11.6	±15.0	±18.5	±22.2	±26.1	± 30.3	± 34.8
5 10	0.0	±2.3	± 4.7	± 7.2	±10.0	±12.8	±15.7	±18.9	±22.2	± 25.7	± 29.5
5 20	0.0	±2.0	± 3.9	± 6.0	± 8.3	±10.7	±13.1	±15.7	±18.4	± 21.3	± 24.4
5 30	0.0	±1.6	± 3.2	± 4.8	± 6.7	± 8.5	±10.5	±12.6	±14.8	± 17.1	± 19.6
5 40	0.0	±1.2	± 2.4	± 3.7	± 5.0	± 6.5	± 7.9	± 9.5	±11.2	± 13.0	± 14.8
5 50	0.0	±0.8	± 1.7	± 2.6	± 3.4	± 4.4	± 5.5	± 6.5	± 7.7	± 8.9	± 10.2
6 0	0.0	±0.5	± 0.9	± 1.4	± 1.9	± 2.4	± 3.0	± 3.6	± 4.2	± 4.9	± 5.6
6 10	0.0	±0.1	± 0.2	± 0.2	± 0.4	± 0.5	± 0.6	± 0.7	± 0.8	± 0.9	± 1.1
6 20	0.0	∓0.3	∓ 0.6	∓ 0.9	∓ 1.2	∓ 1.5	∓ 1.9	∓ 2.3	∓ 2.6	∓ 3.0	∓ 3.5
6 30	0.0	∓0.6	∓ 1.3	∓ 2.0	∓ 2.7	∓ 3.5	∓ 4.3	∓ 5.2	∓ 6.0	∓ 7.0	∓ 8.0
6 40	0.0	∓1.0	∓ 2.1	∓ 3.1	∓ 4.3	∓ 5.5	∓ 6.8	∓ 8.1	∓ 9.5	∓ 11.0	∓ 12.6
6 50	0.0	∓1.3	∓ 2.9	∓ 4.3	∓ 5.9	∓ 7.5	∓ 9.4	∓11.2	∓13.1	∓ 15.1	∓ 17.3
7 0	0.0	∓1.7	∓ 3.6	∓ 5.5	∓ 7.5	∓ 9.6	∓11.9	∓14.3	∓16.7	∓ 19.3	∓ 22.2
7 10	0.0	∓2.1	∓ 4.4	∓ 6.7	∓ 9.2	∓11.7	∓14.5	∓17.4	∓20.4	∓ 23.7	∓ 27.1
7 20	0.0	∓2.5	∓ 5.1	∓ 7.9	∓10.8	∓13.8	∓17.1	∓20.6	∓24.2	∓ 28.1	∓ 32.3
7 30	0.0	∓2.9	∓ 6.0	∓ 9.2	∓12.6	∓16.1	∓19.9	∓24.0	∓28.2	∓ 32.8	∓ 37.7
7 40	0.0	∓3.3	∓ 6.9	∓10.6	∓14.4	∓18.5	∓22.9	∓27.5	∓32.4	∓ 37.8	∓ 43.4
7 50	0.0	∓3.8	∓ 7.7	∓12.0	∓16.3	∓21.0	∓25.9	∓31.3	∓36.9	∓ 43.0	∓ 49.6
8 0	0.0	∓4.2	∓ 8.7	∓13.4	∓18.3	∓23.7	∓29.2	∓35.3	∓41.7	∓ 48.7	∓ 56.3
8 10	0.0	∓4.7	∓ 9.6	∓14.9	∓20.4	∓26.4	∓32.6	∓39.5	∓46.8	∓ 54.8	∓ 63.5
8 20	0.0	∓5.2	∓10.6	∓16.4	∓22.6	∓29.2	∓36.3	∓44.0	∓52.3	∓ 61.5	∓ 71.6
8 30	0.0	∓5.7	∓11.7	∓18.1	∓25.0	∓32.4	∓40.4	∓49.1	∓58.6	∓ 69.1	∓ 81.0
8 40	0.0	∓6.3	∓12.9	∓19.9	∓27.6	∓35.8	∓44.9	∓54.9	∓65.7	∓ 77.9	∓ 92.1
8 50	0.0	∓6.8	∓14.1	∓21.9	∓30.5	∓39.7	∓49.8	∓61.2	∓73.8	∓ 88.5	∓106.1
9 0	0.0	∓7.4	∓15.4	∓24.1	∓33.7	∓44.1	∓55.3	∓68.4	∓83.6	∓101.4	∓125.9

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	a	B	λ−☊	λ−☊	Δλ	a	B	λ−☊
°	′		° ′	°	°			° ′	°
0	+0.0+	−0.0269+	−0 0.0+	180	45	+0.6+	−0.0190+	−1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	−0.0268+	−0 8.0+	185	50	+0.6+	−0.0173+	−1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0114+	−1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	−0.0233+	−0 46.2+	210	75	+0.3+	−0.0070+	−1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	−0.0220+	−0 53.0+	215	80	+0.2+	−0.0047+	−1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	−0.0206+	−0 59.4+	220	85	+0.1+	−0.0023+	−1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	−0.0190+	−1 5.3+	225	90	+0.0+	−0.0000+	−1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite.

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	*a*	*B*	λ−☊	λ−☊	Δλ	*a*	*B*	λ−☊
°	′		° ′	°	°	′		° ′	°
90	−0.0−	+0.0000−	−1 32.3+	270	135	−0.6−	+0.0190−	−1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	−0.1−	+0.0023−	−1 32.0+	275	140	−0.6−	+0.0206−	−0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	−0.2−	+0.0047−	−1 30.9+	280	145	−0.6−	+0.0220−	−0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	−0.3−	+0.0070−	−1 29.2+	285	150	−0.5−	+0.0233−	−0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	−0.4−	+0.0092−	−1 26.8+	290	155	−0.5−	+0.0243−	−0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	−0.5−	+0.0114−	−1 23.7+	295	160	−0.4−	+0.0252−	−0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	−0.5−	+0.0134−	−1 20.0+	300	165	−0.3−	+0.0259−	−0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	−0.6−	+0.0154−	−1 15.6+	305	170	−0.2−	+0.0264−	−0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	−0.6−	+0.0173−	−1 10.7+	310	175	−0.1−	+0.0268−	−0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6.4	314	179	0.0	268	0 1.6	359
135	−0.6−	+0.0190−	−1 5.3+	315	180	−0.0−	+0.0269−	−0 0.0+	360

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite.

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abastumani (Mt. Kanobili)	1700	+41 43	− 2 51	− 28.1	+41 32	9.999471
Abbadia	69	+43 22 52.2	+ 0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Åbo	—	+60 26 56.8	− 1 29 6.30	− 14.64	+60 16 58.8	9.998894
Adelaide	41	−34 55 35.1	− 9 14 19.90	− 91.06	−34 44 42.7	9.999526
Albany (Neue Sternw.)[1] .	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (Neue Sternw.)[2] . .	345	+36 48 4.8	− 0 12 8.47	− 1.99	+36 36 58.1	9.999497
Allegheny (Neue Sternw.).	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (Alte Sternw.) .	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Sternw.) .	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. Sternw.[3].	184	+43 45 14.4	− 0 45 1.30	− 7.39	+43 33 39.5	9.999316
Arequipa[4]	2451	−16 22 28.0	+ 4 46 11.73	+ 47.02	−16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	− 1 34 52.2	− 15.58	+37 47 1.2	9.999456
Bamberg (Remeis-Sternw.)	288	+49 53 6.4	− 0 43 33.57	− 7.15	+49 41 40.3	9.999167
Barcelona[5]	415	+41 24 59.3	− 0 8 30.2	− 1.41	+41 13 29.4	9.999391
Bayreuth (Haus d. Erziehung)	354	+49 56 46	− 0 46 18.4	− 7.61	+49 45 20	9.999170
Belgrad	250	+44 48 8	− 1 22 3.8	− 13.48	+44 36 32	9.999294
Bergedorf Mer.-Kr. . .	41	+53 28 46.9	− 0 40 57.74	− 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.91	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg[6] .	82	+52 24 24.2	− 0 52 25.49	− 8.61	+52 13 11.1	9.999089
Berlin (Urania)[7] . . .	47	+52 31 30.7	− 0 53 27.40	− 8.78	+52 20 18.3	9.999084
Bern (Astronom. Institut) .	563	+46 57 12.7	− 0 29 42.88	− 4.88	+46 45 38.5	9.999260
Besançon	312	+47 14 59.0	− 0 23 57.1	− 3.93	+47 3 25.3	9.999236
Blaca	280	+43 17 37	− 1 6 8.0	− 10.86	+43 6 3	9.999334
Bloemfontein Filiale Obs. Univ. Michig.	1490	−29 5 45	− 1 44 57	− 17.24	−28 55 55	9.999758
Bloemfontein Boyden Stat. d. Harv. Obs.	1379	−29 12	− 1 45 57	− 17.40	−29 2	9.999748
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Sternw.	84	+44 29 52.8	− 0 45 24.48	− 7.46	+44 18 17.3	9.999290
Bombay (Colaba) . . .	19	+18 53 36.2	− 4 51 15.60	− 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Sternw. . .	62	+50 43 45.0	− 0 28 23.18	− 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac). . .	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Bosque Alegre . . . (Filiale v. Cordoba, Reflektor)	1250	−31 35 53	+ 4 18 11.2	+ 42.41	−31 25 33	9.999686
Boston (University)[8] . .	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Breslau Zentr. d. Sternw. .	147	+51 6 56.5	− 1 8 8.72	− 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw.[9] .	117	+51 6 42.1	− 1 8 21.22	− 11.23	+50 55 21.7	9.999130
Brisbane	51	−27 28 23.0	−10 12 6.48	−100.55	−27 18 54.6	9.999694
Brüssel (Alte Sternw.) Pass. Instr. .	56	+50 51 10.7	− 0 17 28.71	− 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr. .	105	+50 47 54.6	− 0 17 26.05	− 2.86	+50 36 32.7	9.999131
Budapest Univ.-Sternw. .	110	+47 29 34.7	− 1 16 15.4	− 12.53	+47 18 1.5	9.999215
Budapest-Svábhegy .	470	+47 29 58.6	− 1 15 51.41	− 12.46	+47 18 25.4	9.999240

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″0 nördlich, 7ˢ10 östlich. — [2]) Alte Sternwarte 3ˢ8 südlich, 8ˢ östlich. — [3]) Seit Oktober 1872, früher in Florenz. — [4]) 1927 geschlossen und nach Bloemfontein verlegt. — [5]) J. Comas Solà. — [6]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″5 nördlich und 1^m 9ˢ31 östlich. — [7]) Übungssternwarte der Universität. — [8]) Die alte Sternwarte lag 4ˢ1 östlich, 34″5 nördlich. — [9]) Geogr. Breite des Vertikalkreises, Länge des Durchgangsinstruments.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
		° ′ ″	h m s	s	° ′ ″	
Budapest[1]	110	+47 28 49	−1 16 13.7	−12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−1 44 27.01	−17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	−0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[2]) . .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	−33 56 6.8	−1 13 54.60	−12.14	−33 45 23.2	9.999547
Caracas (Observ. Cajigal) .	1042	+10 30 24.3	+4 27 42.61	+43.98	+10 26 15.6	0.000023
Castel Gandolfo . .	—	+41 44 48	−0 50 36.4	− 8.31	+41 33 17	9.999354
Catania.	47	+37 30 13.3	−1 0 20.60	− 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	−2 24 55.72	−23.81	+49 48 44.4	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	−0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[3]) . . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Sternw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Sternw.)[4])	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) . .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[5]) .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	−31 25 15.5	+4 16 47.16	+42.18	−31 14 57.5	9.999635
Danzig (Naturf. Ges.) . .	30	+54 21 18.0	−1 14 39.6	−12.26	+54 10 18.4	9.999036
Danzig (Städt. Sternw.) .	30	+54 21 37.9	−1 14 36.5	−12.26	+54 10 38.3	9.999036
Delaware (Perkins Obs.) .	270	+40 15 .4	+5 32 13.33	+54.58	+40 3 38	9.999410
Denver[6])	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer.-Kr. .	67	+58 22 47.2	−1 46 53.18	−17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.) .	168	+51 1 49.3	−0 54 55.1	− 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon) .	—	+51 3 14.7	−0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) . .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	−0 27 2.69	− 4.44	+51 1 5.1	9.999117
Dunlap Obs. (Toronto) .	244	+43 51 46	+5 17 41.3	+52.19	+43 40 11	9.999317
Durban	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill) .	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)[7])	175	+42 3 27.2	+5 50 41.8	+57.61	+41 51 55.4	9.999358
Faenza (Urania Lamonia) .	45	+44 17 2	−0 47 33.9	− 7.81	+44 5 27	9.999293
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[8]) .	73	+43 46 4.1	−0 44 59.6	− 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	−0 45 2.5	− 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . . .	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 34.6	9.999149
Genf Mer.-Kr.	406	+46 11 59.3	−0 24 36.53	− 4.04	+46 0 24.1	9.999269
Genua (Mar. Sternw.) Mer.-Kr. . .	108	+44 25 8.1	−0 35 41.28	− 5.86	+44 13 32.6	9.999294
Georgetown D. C. . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003

[1]) Observ. der Kgl. Josef-Technischen Hochschule. — [2]) Harvard College Observatory. — [3]) Leander Mc. Cornick Observatory, University of Virginia. — [4]) Mount Lookout seit 1873. — [5]) Laws Observatory. — [6]) University Park, Chamberlin Observatory. — [7]) Früher 6″.2 nördl., 0s.5 westl. — [8]) 1872 nach Arcetri verlegt.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich — östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Göttingen Mer.-Kr.	161	+51 31 48.2	—0 39 46.22	— 6.53	+51 20 30.0	9.999117
Gotha (Neue Sternw.)[1] Zentr. d. St.	322	+50 56 37.9	—0 42 50.51	— 7.04	+50 45 16.7	9.999142
Graz	375	+47 4 37.2	—1 1 47.71	—10.15	+46 53 3.2	9.999244
Greenwich Transit Circle	47	+51 28 38.2	0 0 0.00	0.00	+51 17 19.7	9.999110
Groningen	4	+53 13 13.8	—0 26 15.11	— 4.31	+53 2 6.0	9.999064
Grünwald[2]	599	+48 2 7	—0 46 6.55	— 7.58	+47 50 35	9.999235
Hamburg (Alte Sternw.)[3] Mer.-Kr.	25	+53 33 6.0	—0 39 53.60	— 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte)	30	+53 32 51.8	—0 39 53.42	— 6.55	+53 21 46.2	9.999058
Hannover N. H.	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5	9.999317
Haverford	116	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	9.999406
Heidelberg (Wolfs Sternw.)	126	+49 24 35	—0 34 48.4	— 5.72	+49 13 7	9.999159
Heidelberg (Königst.) Mer.-Kr.	570	+49 23 54.6	—0 34 53.13	— 5.73	+49 12 26.8	9.999198
Helsingfors Mer.-Kr.	33	+60 9 42.3	—1 39 49.10	—16.40	+59 59 40.8	9.998903
Helwan	115	+29 51 31.1	—2 5 21.77	—20.59	+29 41 31.4	9.999648
Herrsching (München)	534	+47 59 55	—0 44 43.6	— 7.35	+47 48 23	9.999231
Hongkong	33	+22 18 13.2	—7 36 41.25	—75.02	+22 10 5.8	9.999793
Hyderabad-Deccan[4]	554	+17 25 54.3	—5 13 48.98	—51.55	+17 19 17.7	9.999907
Innsbruck	605	+47 16 6.5	—0 45 31.42	— 7.48	+47 4 32.8	9.999254
Istanbul (Univ. Sternw.)	65	+41 0 45	—1 55 52	—19.03	+40 49 16	9.999377
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	—0 46 20.22	— 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	—0 46 20.73	— 7.61	+50 44 54.5	9.999132
Johannesburg	1786	—26 10 52.1	—1 52 17.9	—18.45	—26 1 42.0	9.999839
Johannesburg (Fil. d. Yale Observ.)	1741	—26 11 14	—1 52 7	—18.42	—26 2 4	9.999836
Kairo	—	+30 4 38.2	—2 5 8.80	—20.56	+29 54 35.8	9.999635
Kalocsa[5]	102	+46 31 42.4	—1 15 54.34	—12.47	+46 20 7.6	9.999239
Karlsruhe[6]	110	+49 0 29.6	—0 33 35.40	— 5.52	+48 49 0.4	9.999177
Kasan (Univers.)	79	+55 47 24.3	—3 16 29.03	—32.28	+55 36 36.6	9.999007
Kasan (Engelhardt)	98	+55 50 20.5	—3 15 15.74	—32.08	+55 39 33.2	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47.5	9.999108
Kiel Neuer Mer.-Kr.	52	+54 20 27.6	—0 40 35.45	— 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kr.	47	+54 20 28.5	—0 40 35.57	— 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kr.	184	+50 27 11.8	—2 2 0.56	—20.04	+50 15 48.3	9.999145
Kitab	658	+39 8 1.7	—4 27 31.7	—43.95	+38 56 41.0	9.999465
Kodaikanal	2343	+10 13 50	—5 9 52.0	—50.94	+10 9 47.6	0.000114
Königsberg Reps. Mer.-Kr.[7]	22	+54 42 50.6	—1 21 58.98	—13.47	+54 31 53.8	9.999029
Konstanz[8]	420	+47 39 43.6	—0 36 42.01	— 6.03	+47 28 10.7	9.999232
Kopenhagen (Neue Sternw.)[9]	14	+55 41 12.6	—0 50 18.69	— 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania-Sternw.)	10	+55 41 19.2	—0 50 9.11	— 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kr.	221	+50 3 51.9	—1 19 50.28	—13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	—0 56 31.58	— 9.28	+47 51 51.1	9.999219

[1]) Seit 1857, früher Seeberg. — [2]) Privatsternwarte von Ph. Fauth. — [3]) 1909 nach Bergedorf verlegt. — [4]) Nizamiah Observatory. — [5]) Erzbischöfl. Haynaldsche Sternwarte. — [6]) 1896 nach Heidelberg verlegt. — [7]) Nach 1898, vor 1898 0^s01 westlich. — [8]) Privatsternwarte von E. Leiner. — [9]) Seit 1861 Nov. 11. Alte Sternwarte $20''3$ südlich, 0^s03 westlich.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kyoto (Astron. Inst.)	55	+35 1 37.1	−9 3 7.0	−89.22	+34 50 43.9	9.999525
Kyoto (Kwasan Observ.)	220	+34 59 40.3	−9 3 10.24	−89.23	+34 48 47.4	9.999537
Ladd Observ. (Providence)	69	+41 50 15.6	+4 45 35.95	+46.92	+41 38 44.4	9.999357
La Plata Mer.-Kr. Gautier	17	−34 54 30.3	+3 51 43.74	+38.07	−34 43 38.1	9.999525
Leiden (Neue Sternw.)[1] Mer.-Kr.	6	+52 9 19.8	−0 17 56.15	− 2.94	+51 58 5.2	9.999090
Leipzig (Neue Sternw.)[2] Zentr.	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.)	1300	− 6 49 29.1	−7 10 27.81	−70.71	− 6 46 45.5	0.000068
Lemberg (Univ.-Sternwarte)	330	+49 49 57.6	−1 36 7.13	−15.79	+49 38 31.4	9.999171
Lemberg (Techn. Hochsch.) Pass. Instr.	340	+49 50 11.2	−1 36 3.40	−15.78	+49 38 45.0	9.999171
Leningrad (Petersburg) (Akad.)	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Leningrad (Petersburg) (Univers.)	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Lissabon (Tapada)	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Sternw.)	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Sternw.)[3]	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
London (Mill Hill) (Obs. of Univ.)	82	+51 36 46.3	+0 0 57.77	+ 0.16	+51 25 28.6	9.999109
Lourenço Marques	60	−25 58 5.5	−2 10 22.63	−21.42	−25 48 58.9	9.999725
Lübeck (Navig.-Sch.)	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Sternw.	34	+55 41 51.6	−0 52 44.97	− 8.66	+55 31 3.1	9.999006
Lüttich Ougrée	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.5	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Observ.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	−5 20 59.65	−52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Sternw.	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera	120	+45 27 59.2	−0 36 45.89	− 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908
Mannheim Zentr. d. Sternw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif.	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper)	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (Neue Sternw.)[4] Mer.-Kr.	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
McDonald Observatory (Fort Davis)	2070	+30 40 13	+6 56 6.3	+68.36	+30 30 4	9.999763
McMath-Hulbert Obs. (Lake Angelus)	296	+42 39 47.7	+5 33 3.3	+54.71	+42 28 14.5	9.999351
Melbourne	28	−37 49 53.4	−9 39 54.17	−95.26	−37 38 39.9	9.999454
Merate (Filiale v. Mailand, Brera)	380	+45 41 54.1	−0 37 42.85	− 6.20	+45 30 18.6	9.999279
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Middletown, Conn.	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	−9 24 31.46	−92.74	+38 56 42.7	9.999424
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick Obs.) Mer.-Kr.	1283	+37 20 25.3	+8 6 34.86	+79.94	+37 9 14.9	9.999552
Mt. Wilson, Calif.	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

[1]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0ˢ.42 östlich. — [2]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4ˢ.00 westlich. — [3]) Alte Sternwarte 44″.0 nördlich, 17ˢ.1 östlich. — [4]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6ˢ.2 westlich;

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich — östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[1]) . . .	←	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München (West-Kuppel) .	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8	−0 30 29.66	− 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999506
Neapel (Capo di Monte) .	154	+40 51 45.7	−0 57 1.40	− 9.37	+40 40 17.6	9.999387
Neuchâtel Refraktor . .	488	+46 59 49.5	−0 27 49.77	− 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)[2])	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd) .	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew Mer.-Kr. . .	55	+46 58 19.3	−2 7 53.98	−21.01	+46 46 45.1	9.999225
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290	+44 27 41.4	+6 12 35.84	+61.21	+44 16 5.9	9.999305
Oakland Californ.[4]) .	99	+37 47	+8 8 48	+80.30	+37 35 47	9.999460
Oak Ridge (Filiale d. Harvard Obs.)	183	+42 30 13	+4 46 14.2	+47.02	+42 18 40	9.999347
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa) .	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Oslo (Christiania) Mer.-Kr..	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Ottawa Mer.-Kr. . . .	85	+45 23 39.1	+5 2 51.98	+49.75	+45 12 3.5	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 33.9	+0 5 3.0	+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi . .	140	+34 22 12.6	+5 58 7.18	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.9	−0 47 29.15	− 7.80	+45 12 26.3	9.999261
Palermo	72	+38 6 44.0	−0 53 25.87	− 8.78	+37 55 28.9	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	−0 9 20.93	− 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	−0 9 20.6	− 1.53	+48 37 48.2	9.999174
Peking	—	+39 54 23.0	−7 45 52.87	−76.53	+39 42 58.7	9.999401
Perkins Obs. (Delaware)	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410
Perth, West-Austr. . .	60	−31 57 10.7	−7 43 21.62	−76.12	−31 46 46.9	9.999597
Petersburg (Leningrad) (Akademie) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Petersburg (Leningrad) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Philadelphia[5])	74	+39 58 2.1	+5 1 6.88	+49.47	+39 46 37.5	9.999404
Pic du Midi (Filiale v. Toulouse) .	2850	+42 56 31.5	−0 0 34.29	− 0.09	+42 44 57.8	9.999518
Plonsk[6])	—	+52 37 40.0	−1 21 31.9	−13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	−0 55 23.07	− 9.10	+44 40 12.9	9.999277
Porto Alegre[7]) Mer.-Kr..	—	−30 1 51	+3 24 53.2	+33.66	−29 51 49	9.999636
Posen	85	+52 23 48.6	−1 7 30.60	−11.09	+52 12 35.4	9.999090

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45.″8 südlich, 1.s58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Flower Obs. (Univ. of Pennsylvania). — [6]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [7]) Observatorio Regional do Rio Grande do Sul.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich — östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	— 0 52 15.86	— 8.59	+52 11 42.7	9.999091
Potsdam (Geod. Inst.) Turm	99	+52 22 54.8	— 0 52 16.11	— 8.59	+52 11 41.5	9.999091
Potsdam (Geod. Inst.) Östl. Meridianh.	99	+52 22 54	— 0 52 16.058	— 8.586	+52 11 41	9.999091
Poughkeepsie[1])	61	+41 41 18	+ 4 55 35.2	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Princeton N. J. (N. Stw.)[2])	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence (Ladd. Observ.)	69	+41 50 15.6	+ 4 45 35.95	+46.92	+41 38 44.4	9.999357
Pulkowa Zentr. d. Stw.	75	+59 46 18.5	— 2 1 18.57	—19.93	+59 36 12.3	9.998914
Pulsnitz[9])	284	+51 10 54.6	— 0 56 4.18	— 9.21	+50 59 34.6	9.999134
Quebec Canada	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	— 0 14 0	+ 5 13 58.20	+51.58	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	—22 53 42.1	+ 2 52 53.6	+28.40	—22 45 24.7	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr.	65	+41 53 33.2	— 0 49 56.34	— 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr.[8])	100	+41 54 12.4	— 0 49 48.26	— 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
Saltsjöbaden (Stockholms Observator.)	55	+59 16 18	— 1 13 14	—12.03	+59 6 6	9.998924
San Fernando	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco[3])	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	—33 33 44.2	+ 4 42 46.0	+46.44	—33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	—33 26 25.4	+ 4 42 36.9	+46.42	—33 15 46.4	9.999600
Sendai (Durchg.-Instr.)	36	+38 15 14.9	— 9 23 29.49	—92.57	+38 3 59.0	9.999444
Sétif	1120	+36 11 10	— 0 21 38.6	— 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.6	— 2 15 59.38	—22.34	+44 12 36.1	9.999312
Sofia (Mil. Geogr. Inst.)	555	+42 41 51	— 1 33 19.87	—15.33	+42 30 18	9.999368
Sofia (Universitätssternwarte)	572	+42 41 1.7	— 1 33 23.3	—15.34	+42 29 28.5	9.999369
Sonneberg (Erbisbühl)	640	+50 22 41.4	— 0 44 46.19	— 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stalinabad (Tadjik Observ.)	—	+38 33 30	— 4 35 6.2	—45.19	+38 22 12	9.999434
Stará Dala[4])	113	+47 52 27.3	— 1 12 45.49	—11.95	+47 40 54.9	9.999206
Stockholm (Alte St.) M.-Kr.[5])	44	+59 20 32.7	— 1 12 13.97	—11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (N. St.). M.-Kr.[6])	144	+48 35 0.4	— 0 31 4.53	— 5.10	+48 23 29.9	9.999190
Stuttgart (Schwäb. Sternw.)	344	+48 47 0.7	— 0 36 47.39	— 6.04	+48 35 30.8	9.999198
Swarthmore (Sproul Obs.) Refraktor	63	+39 54 16.2	+ 5 1 25.62	+49.52	+39 42 51.9	9.999405
Sydney	44	—33 51 41.1	—10 4 49.54	—99.36	—33 40 58.2	9.999551
Sydney (Riverview Coll. Obs.)	42	—33 49 45.7	—10 4 37.99	—99.33	—33 39 3.1	9.999552
Tacubaya[7])	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	— 1 46 53.19	—17.56	+58 12 25.1	9.998946
Taschkent Mer.-Kr.	475	+41 19 31.6	— 4 37 10.88	—45.53	+41 8 2.0	9.999397

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [3]) Davidson Observatory. — [4]) Früher O-Gyalla. — [5]) Neue Sternwarte seit 1931 in Saltsöbaden. — [6]) Seit Anfang 1881. — [7]) Seit März 1883, früher in Chapultepec. — [8]) 1933 nach Castel Gandolfo verlegt. — [9]) Privatsternwarte des Herrn Classen.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich — östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Teramo (Cerulli)	398	+42 39 27	— 0 54 55.8	— 9.02	+42 27 54	9.999358
Tokio Mer.-Kr.	57	+35 40 19	— 9 18 9.90	— 91.69	+35 29 21	9.999509
Toronto (Univ. Obs.)	110	+43 39 46.0	+ 5 17 34.70	+ 52.17	+43 28 11.2	9.999313
Toronto (Dunlap Obs.)	244	+43 51 46	+ 5 17 41.3	+ 52.19	+43 40 11	9.999317
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	— 0 1 58	— 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr.	195	+43 36 44.0	— 0 5 51.01	— 0.96	+43 25 9.3	9.999329
Triest (R. Oss. Astr.)	68	+45 38 35.5	— 0 55 4.92	— 9.05	+45 27 0.0	9.999259
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	— 8 1 16.21	— 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.)	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	— 0 30 47.15	— 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese)	618	+45 2 16.3	— 0 31 6.52	— 5.11	+44 50 40.6	9.999312
Turku (Spiegelteleskop)	28	+60 27 8.7	— 1 28 55.03	— 14.61	+60 17 10.7	9.998896
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 1 10 30.13	— 11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	— 0 20 31.6	— 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	— 0 23 19.91	— 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	— 0 49 22.12	— 8.11	+45 14 34.9	9.999261
Victoria B.C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau[1] Zentr. d. Stw.	121	+52 13 4.6	— 1 24 7.25	— 13.82	+52 1 50.3	9.999097
Warschau[2]	—	+52 13 10	— 1 24 4.8	— 13.81	+52 1 56	9.999088
Warschau (Techn. Hochsch.)	144	+52 13 21.0	— 1 24 2.4	— 13.81	+52 2 6.8	9.999098
Washington (Alte Stw.)	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.)	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.)	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[3]	127	—41 17 3.8	—11 39 4.27	—114.84	—41 5 34.3	9.999375
West Point N. Y. (N. Stw.)[4]	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.)	167	+48 12 35.5	— 1 5 31.61	— 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[5]	214	+48 12 53.8	— 1 5 25.17	— 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr.	240	+48 13 55.3	— 1 5 21.35	— 10.73	+48 2 23.8	9.999205
Wien (Ottakring)[6]	285	+48 12 46.7	— 1 5 10.97	— 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.	211	+48 12 40.5	— 1 5 26.24	— 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule)	198	+48 11 58.3	— 1 5 29.76	— 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	— 0 32 35.15	— 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[7]	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass.	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr.	122	+54 40 59.1	— 1 41 8.76	— 16.61	+54 30 2.1	9.999036
Windhuk	1685	—22 35 26.6	— 1 8 15.07	— 11.21	—22 27 14.3	9.999901
Wolfersdorf	279	+50 47 20.0	— 0 46 50.94	— 7.70	+50 35 58.0	9.999143
Würzburg (Neue Univ.-Sternw. Zentr.)	207	+49 47 19.0	— 0 39 44.71	— 6.53	+49 35 52.7	9.999163
Zô-sè China	100	+31 5 47.6	— 8 4 44.75	— 79.63	+30 55 33.2	9.999619
Zürich Meridian-Kreis	468	+47 22 38.3	— 0 34 12.3	— 5.62	+47 11 4.8	9.999242

[1]) Universitäts-Sternwarte. — [2]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [3]) Dominion Observatory. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, $1^s.2$ östlich. — [5]) von Oppolzers Sternwarte. — [6]) v. Kuffner. — [7]) Yerkes Observatory.

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr. h m		
11 30	—	Neuseeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien, Neu-Guinea
9 30	Südaustralische Z.	Süd-Australien
9 0	Mittl. Japan-Z.	Japan, Mandschukuo, Korea
8 0	Chinesische Küsten-Z.	Ostküste von China, Philippinen, Celebes, West-Australien
7 30	Java-Zeit	Bali, Borneo, Java, Lombok
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina, Thailand
5 30	—	Indien, Ceylon
4 0	—	Europ. Rußland*) von 40° bis 52° 30′ östl. Länge
3 0	—	Europ. Rußland*) westl. von 40° östl. Länge
2 45	—	Deutsch-Ostafrika
2 0	Osteuropäische Z.	Finnland, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika, Deutsch-Südwest-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Norwegen, Schweden, Dänemark, Deutschland, Ungarn, Schweiz, Italien, Protektorat Böhmen und Mähren, Slowakei, Kroatien, Kamerun
0 20	Amsterdamsche Zeit	Niederlande
h m 0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Portugal, Spanien, Gibraltar, Algerien
westl. Gr. h m		
1 0	—	Island, Madeira, Kanarische Inseln
2 0	—	Azoren, Kap Verdesche Inseln, Grönland-Scoresbysund
3 0	—	Ost-Brasilien, Grönland-Westküste und Angmagsalik, Argentinien (1. Nov.—Ende Febr.), Uruguay (Nov.—März)
3 30	—	Uruguay (April—Okt.)
4 0	Intercolonial St. Time	Mittel-Brasilien, Argentinien (1. März—31. Okt.), Canada (Küste), Paraguay, Chile, Bolivien
4 30	—	Venezuela
5 0	Eastern St. Time	Canada (Quebec, Ontario zwisch. 68° u. 90° westl.), Verein. Staat. (Ost-Zone), Panama, Peru, Ecuador, West-Brasilien, Columbien
6 0	Central St. Time	Zentral-Zone von Canada u. v. d. Verein. Staaten, Mexico, mit Ausnahme des nördl. Teiles
7 0	Mountain St. Time	Gebirgszone von Canada u. v. d. Verein. Staaten
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Columbien, nördl. Mexico
9 0	—	Alaska östl. von 141° westl. Länge
10 0	—	Alaska zwischen 141° und 162° westl. Länge
10 30	—	Hawaii (Sandwich Inseln)
11 0	—	Alaska westl. von 162°, Aleuten, Samoa

*) Im Gebiet der Sowjet-Republiken sind alle Uhren 1 Stunde vorgestellt.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Planeten* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind in Welt-Zeit ausgedrückt, wenn nicht ausdrücklich eine andere Zeit angegeben wird. **Welt-Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Welt-Zeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Welt-Zeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind gegeben als »Mittlere Sternörter«, bezogen auf das mittlere Äquinoktium des Jahresanfangs, und in Ephemeridenform als »Scheinbare Sternörter«, bezogen auf das instantane wahre Äquinoktium.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—29 und 100—108).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt-Zeit an jedem Tage:

1) Die Zeitgleichung = Wahre Zeit *minus* Mittlere Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzenreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.

4) Den geozentrischen Halbmesser der Sonnenscheibe, d.i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit. In ihr sind, wie im Vorwort erwähnt, nur die langperiodischen Glieder der Nutation enthalten.

Um für einen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner mittleren Mitternacht zu erhalten, ist zu diesen Angaben hinzuzulegen: $9^s.8565\ \Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die Nutation in Rektaszension getrennt nach langperiodischen und kurzperiodischen Gliedern.

4) Die geozentrischen ekliptikalen Koordinaten λ, β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie die Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

5) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50°$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30°$ und $+60°$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 382*, 383* zu benutzen.

Auf S. 20—28 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen, geozentrischen, äquatorialen Sonnenkoordinaten für 0^h Welt-Zeit mit ihren ersten und zweiten Differenzen. Die gleichen Koordinaten, jedoch bezogen auf das Normaläquinoktium 1950.0, werden auf S. 100—108 gegeben.

Die Werte von X, Y, Z sind auf 6 Dezimalen gegeben. Die Ephemeriden bieten jedoch die Möglichkeit, die Sonnenkoordinaten auch auf 7 Dezimalen zu entnehmen. Zu diesem Zwecke füge man an die 6-stelligen Werte eine Null an und vereinige sie algebraisch mit den Werten von ΔX, ΔY, ΔZ. Ein ausführliches Beispiel hierfür ist im Jahrgang 1933, S. 362* gegeben.

Die gleichen Vorschriften gelten für die auf das Normaläquinoktium 1950.0 bezogenen Sonnenkoordinaten auf S. 100—108.

Am Fuß der Seite 28 finden sich die Zeiten für die Anfänge der Jahreszeiten und für die Erdnähe und Erdferne der Sonne.

Die Seite 29 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 30—48).

Die Mondephemeride (S. 30—47) gibt auf den linken Seiten für 0^h Welt-Zeit:

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf 0°001.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50°$ Breite nebst Änderung

für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion 34′ berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen +30° und +60° geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 384*, 385* zu benutzen.

Seite 48 enthält die Zeitangaben für die Phasen, die Erdnähe und Erdferne des Mondes.

Ephemeriden der Großen Planeten (S. 49—99 und 109—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus, Neptun und Pluto von 4 zu 4 Tagen für 0^h Welt-Zeit mit ihren ersten Differenzen gegeben. Für die Planeten Merkur bis Neptun sind scheinbare, auf das momentane wahre Äquinoktium bezogene Örter gegeben. Die Örter von Pluto sind auf das mittlere Äquinoktium 1950.0 bezogen und sind nicht wegen Aberration korrigiert. Zur bequemeren Vergleichung der Beobachtungen mit der Ephemeride sind bei diesem Planeten Fixsternaberration und Lichtzeit in besonderen Spalten angeführt. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Die Örter von Pluto sind nach den Elementen XIX von E.C. Bower, Lick Observatory Bulletin 437, unter Berücksichtigung der Störungen durch Jupiter, Saturn, Uranus und Neptun berechnet.

Die scheinbaren Halbmesser in der Einheit der Entfernung sind:

Merkur	3″34	Saturn (äquat.)	83″33
Venus	8.41	» (polar)	74.57
Mars	4.68	Uranus	34.28
Jupiter (äquat.)	98.47	Neptun	36.56
» (polar)	91.91		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1950.0.

☊ und i stellen die Bahnlage für die Epoche 1950.0 und das Normaläquinoktium 1950.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 1535 Fixsternen (S. 2*—40*).

Die mittleren Örter der 1535 Fixsterne sind aus den Angaben des Dritten Fundamentalkatalogs des Berliner Astronomischen Jahrbuchs

(I. Teil: Veröffentlichungen des *Astronomischen Rechen-Institus* Nr. 54, II. Teil: Abhandlungen der *Preußischen Akademie der Wissenschaften* Jahrg. 1938, Phys. math. Klasse Nr. 3) abgeleitet worden. Die in Teil I durch ein † gekennzeichneten Sterne sind von 1944 ab weggelassen worden. Die in Teil II enthaltenen Zusatzsterne sind durch ihre Nummern, die alle über 1000 liegen, leicht zu erkennen. Die zusätzlichen Polsterne sind mit den griechischen Buchstaben α—π bezeichnet. Die Örter aller Polsterne sind durch trigonometrische Übertragung erhalten worden. Die jährlichen Veränderungen gelten für die Mitte des Jahres. Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus dem „Henry Draper Catalogue (Harvard Annals, Vol. 91—99)" entnommen sind. Bei einigen weiten Doppelsternen ist an Stelle der im H. D. C. angegebenen Gesamthelligkeit die Helligkeit der hellen Komponente angeführt. Bei Veränderlichen sind die Grenzen der Helligkeit angegeben; beziehen sich diese auf photographische Größen, so sind sie durch kursiven Druck kenntlich gemacht.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 584 Fixsternen (S. 41*—250*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 560 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie hinreichend verbürgt erscheint, nämlich:

Nr. 10	ζ Tucanae	mit 0."133		Nr. 538	α Centauri	mit 0."756
Nr. 11	β Hydri	» 0.143		Nr. 667	μ Herculis	» 0.109
Nr. 59	τ Ceti	» 0.298		Nr. 695	χ Draconis	» 0.119
Nr. 127	ε Eridani	» 0.305		Nr. 699	α Lyrae	» 0.121
Nr. 257	α Canis maj.	» 0.377		Nr. 745	α Aquilae	» 0.208
Nr. 291	α Canis min.	» 0.291		Nr. 754	δ Pavonis	» 0.174
Nr. 295	β Geminor.	» 0.100		Nr. 793	61 Cygni	» 0.299
Nr. 445	β Virginis	» 0.101		Nr. 805	γ Pavonis	» 0.113
Nr. 470	β Canum ven.	» 0.108		Nr. 867	α Piscis austr.	» 0.135
Nr. 492	β Comae	» 0.121		Nr. 875	Br 3077 Cass.	» 0.146
Nr. 513	η Bootis	» 0.112				

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des FK 3 besitzen noch folgende hinreichend verbürgte Parallaxen:

Nr. 119	82 G. Eridani	0".159	Nr. 1073	268. G. Ceti	0".147
Nr. 135	δ Eridani	0.112	Nr. 1093	κ Ceti	0.106
Nr. 217	γ Leporis	0.122	Nr. 1134	π^3 Orionis	0.128
Nr. 239	α Mensae	0.118	Nr. 1300	61 Ursae maj.	0.109
Nr. 825	ε Indi	0.288	Nr. 1307	Grb 1830 U Maj	0.108
Nr. 1019	96 G. Pisc.	0.148	Nr. 1345	61 Virginis	0.116
Nr. 1030	μ Cassiop.	0.130	Nr. 1391	33 G. Librae	0.172

Die Ephemeriden der auf S. 2*—40* eingeklammerten Sterne findet man in «Apparent Places of Fundamental Stars». H. M. Stationary Office, London.

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von sec δ und tg δ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden. Ferner sind hier die Größen a, b, a', b' enthalten, mit deren Hilfe die Nutationsglieder kurzer Periode leicht berechnet werden können. Man erhält $A'a + B'b$ in Zeitsekunden, $A'a' + B'b'$ in Bogensekunden.

Auf den Seiten 241*—250* sind die rechtwinkligen Koordinaten der scheinbaren Örter von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0°$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos\delta \cos\alpha$, $y = \cos\delta \sin\alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Nutationsgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89° 1: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD + 89° 1. Astron. Nachr. Bd. **273**, S. 87.

für BD + 89° 3 und + 89° 37: L. Courvoisier: Beobachtungen der Polsterne BD + 89° 3 und BD + 89° 37 am Vertikalkreis 1914—1926. Veröff. der Universitäts-Sternwarte zu Berlin-Babelsberg, Band XII, Heft 2.

für CPD — 89° 38: Cape Annals Bd. **XI**, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Damit werden die mittleren Örter für 1945.0:

Name	Gr.	x	Jährl. Veränd. 1945.5	Jährliche Eigenbew.	y	Jährl. Veränd. 1945.5	Jährliche Eigenbew.
	m	"	"	"	"	"	"
BD+89° 1	10.56	— 379.87	—20.071	—0.011	+ 78.45	—0.097	—0.010
BD+89° 3	9.06	— 181.54	—20.242	—0.006	+863.38	—0.049	—0.006
BD+89° 37	10.06	—1161.46	—19.976	—0.011	—346.41	—0.247	+0.015
CPD—89° 38	9.5	+ 74.47	+20.140	+0.027	—307.25	+0.050	+0.031

Reduktionsgrößen (S. 251*—290*).

Auf die scheinbaren Örter der Sterne folgt S. 251* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 279* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 270*—278* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Nutationsglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, log g, G, log h, H, log i und i, sowie f', g' und G' sind auf S. 252*—269* von Tag zu Tag für 0^h Welt-Zeit gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit Jahresanfang.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) ε = Mittlere Schiefe der Ekliptik.
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.
g) Die Koeffizienten j und k der Formeln auf S. 282*.

Die wahre Schiefe erhält man durch Addition der Gesamtnutation $(\Delta\varepsilon + \Delta\varepsilon')$ zu der mittleren Schiefe.

Auf S. 280* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1945.0.

S. 281* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1945.0.

Auf S. 282* sind die Formeln zusammengestellt, mit welchen bei Anschlußbeobachtungen die gemessenen Koordinatendifferenzen der scheinbaren Örter in solche der mittleren Örter für den Jahresanfang übergeführt werden. Die in diesen Formeln auftretenden Koeffizienten j und k sind auf den Seiten 253*—269* enthalten und haben die Bedeutung

$$j = 15\,g \text{ arc } 1'$$
$$k = 15\,h \text{ arc } 1',$$

wobei g und h die auf den Seiten 252*—268* gegebenen Reduktionsgrößen sind.

S. 283* enthält eine Zusammenstellung der von der Deklination abhängenden Faktoren der Formeln auf S. 282*.

S. 284* enthält eine Tafel der numerischen Werte der Funktionen Sinus und Cosinus für in Zeit ausgedrückte Winkel. Ihre Benutzung erleichtert die Berechnung der Formeln auf S. 282*.

Die Seite 285* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1945.0 auf das Normaläquinoktium 1950.0. Man findet die auf das Normaläquinoktium 1950.0 bezogene Koordinatendifferenz, indem man an die auf das mittlere Äquinoktium 1945.0 bezogene Rektaszensionsdifferenz die differentielle Präzession Δp_α^s und an die Deklinationsdifferenz die differentielle Präzession $\Delta p_\delta''$ anbringt:

$$\Delta p_\alpha^s = a_1 \operatorname{tg}\delta \cdot \Delta\alpha^m + a_2 \frac{1}{15} \sec^2\delta \cdot \Delta\delta',$$
$$\Delta p_\delta'' = d_1 \cdot \Delta\alpha^m.$$

Die Koeffizienten a_1, a_2 und d_1 sind in der Tafel auf S. 285* enthalten und haben die Bedeutung:

$$a_1 = (n) \text{ arc } 1' \cos\alpha$$
$$a_2 = (n) \text{ arc } 1' \sin\alpha$$
$$d_1 = -15\,(n) \text{ arc } 1' \sin\alpha.$$

$\Delta\alpha^m$ und $\Delta\delta'$ sind die auf das mittlere Äquinoktium 1945.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf Seite 286* gegebenen Größen f, log g und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1950.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafeln auf S. 287* gegeben. Diese enthalten in der ersten Reihe einer jeden Vertikalspalte die Werte von 0.125 × Var. saec. für die mit den Argumenten α und δ gegebenen Örter. Die an zweiter Stelle stehenden Zahlen einer jeden Vertikalspalte sind die einjährigen Änderungen von 0.125 × Var. saec. und sind, wenn erforderlich, bei der Entnahme des Einflusses der Variatio saecularis für den in Frage kommenden Bruchteil des Jahres zu berücksichtigen.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1945.0 auf das Normaläquinoktium 1950.0 befindet sich auf den Seiten 288*—290*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (n^s) \sin a$$
$$D = (n'') \cos a$$
$$B = (m^s) - 0.00001818\,(n^s)^2 \sin 2a$$
$$\Delta C = \operatorname{arc} tg\, C - C; \quad C = A\, tg\,(\delta_{1945.0} + D)$$
$$P = -15\, tg\, \tfrac{1}{2}\psi; \quad tg\,\psi = \sin\,(n) \sin a\, tg\,(\delta_{1945.0} + D)$$
$$a = \alpha_{1945.0} + 90^\circ - (N)$$

Wegen der Größen (m), (n), (N) vgl. S. [5] der „Grundbegriffe der Sphärischen Astronomie" im Jahrbuch für 1916. Falls die auf S. 290* gegebene Tafel für ΔC und P nicht ausreicht, berechne man die Größen nach den vorstehend gegebenen Formeln oder benutze die weiterreichende Tafel in Veröff. d. Astronom. Rechen-Instituts Nr. 49.

Sonnen- und Mondfinsternisse (S. 292*—299*).

Bei der Berechnung der Finsternisse des Jahres 1945 sind die Örter von Sonne und Mond um folgende Beträge verbessert worden:

			Sonne: $\Delta\alpha$	$\Delta\delta$		Mond: $\Delta\alpha$	$\Delta\delta$
1945	Jan. 14	Sonne:	$+0^s.07$	$+0''.2$	Mond:	$-0^s.07$	$-0''.6$
	Juni 25	„	$+0.07$	0.0	„	-0.07	-0.4
	Juli 9	„	$+0.07$	-0.1	„	-0.08	-0.5
	Dez. 18–19	„	$+0.08$	0.0	„	-0.08	-0.6

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, log sin d, log cos d, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), log tang f ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x' und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1)\quad \begin{cases} \xi = c \cos\varphi \sin(\mu - \lambda) \\ \eta = s \sin\varphi \cos d - c \cos\varphi \sin d \cos(\mu - \lambda) \\ \zeta = s \sin\varphi \sin d + c \cos\varphi \cos d \cos(\mu - \lambda) \\ \xi' = [7.6398 - 10]\, c \cos\varphi \cos(\mu - \lambda) \\ \eta' = [7.6398 - 10]\, \xi \sin d, \end{cases}$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 379* zu entnehmen sind.

Alsdann:

$$(2)\quad \begin{cases} m \sin M = x - \xi \\ m \cos M = y - \eta \end{cases} \; m > 0 \qquad \begin{cases} n \sin N = x' - \xi' \\ n \cos N = y' - \eta' \end{cases} \; n > 0$$

Nun berechnet man aus:

(3) $L = l - \zeta \operatorname{tang} f$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

(4) $\sin\psi = \dfrac{m \sin(M - N)}{L}$ [1]

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

(5) $\tau = -\dfrac{m\cos(M - N)}{n} + \dfrac{L\cos\psi}{n}$,

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen so lange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ usf. bis sich $\tau_n = 0$ ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left.\begin{aligned} p \sin\gamma &= \xi \\ p \cos\gamma &= \eta \end{aligned}\right\} p > 0$$

folgt, also

$$Q = P - \gamma.$$

Um die Zeit der größten Phase, T_{max}, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte $\overline{T}_1$ durchzurechnen, daraus $\overline{T}_2 = \overline{T}_1 - \dfrac{m\cos(M - N)}{n}$ zu entnehmen und die Rechnung so lange fortzusetzen, bis die Korrektion der Ausgangszeit 0 wird. Als Näherungswert T_1 wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

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[1] Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90°$ aus $\tau = -\dfrac{m\cos(M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

Die Größe der Verfinsterung i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2\,L^{(a)} - 0.5459}$$

worin $L^{(a)}$ und m die zur Zeit $T_{\max}$ gehörigen Werte bedeuten.

Sternbedeckungen (S. 300*—305*).

Auf den Seiten 300*—302* sind Angaben über die Sternbedeckungen enthalten, die in Mitteleuropa sichtbar sind.

Die Seite 300* enthält die mittleren Örter der Sterne, die vom Monde bedeckt werden. Auf den Seiten 301*—302* sind die Besselschen Elemente der Sternbedeckungen gegeben, wobei die Auswahl auf Sterne beschränkt wurde, die heller als 6^m0 sind. Die Formeln zur Berechnung der Berührungszeiten eines Sternes mit dem Mondrande mit Hilfe dieser Elemente sind auf S. 356* des Jahrgangs 1937 gegeben.

Für Berlin-Babelsberg, Königsberg, Straßburg und Wien ist auf S. 303*—305* außer der genäherten Welt-Zeit des Ein- oder Austrittes auch der Positionswinkel P des Sternes für die Zeiten der Berührung mit dem Mondrande angeführt. Die Rechnungen für diese Vorausberechnungen sind von der Hamburger Sternwarte in Bergedorf ausgeführt worden.

Die Größen a und b ermöglichen die Vorausberechnung der genäherten Ein- oder Austrittszeiten für andere Orte innerhalb Deutschlands, die nicht allzuweit von diesen vier Hauptpunkten entfernt sind. Bezeichnen λ und φ die geographischen Koordinaten des Beobachtungsortes, λ_0 und φ_0 diejenigen des ihm am nächsten gelegenen Hauptpunktes, so ist die gesuchte Berührungszeit gleich der für den Hauptpunkt geltenden $+ a\,(\lambda - \lambda_0) + b\,(\varphi - \varphi_0)$. Hierbei sind die Differenzen $\lambda - \lambda_0$ und $\varphi - \varphi_0$ in Einheiten des Grades unter Mitnahme der Zehntelgrade auszudrücken, damit sich die Korrektion in Zeitminuten ergibt.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 306*).

Auf S. 306* finden sich:

☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik,
$L_☾$, Mittlere Länge des Mondes,
$\tilde{\omega}$, Mittlere Länge des Perigäums,
$M_☾$, Mittlere Anomalie des Mondes,
i, Neigung des Mondäquators gegen den Erdäquator,
Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator,
☊′, Aufsteigender Knoten des Mondäquators auf dem Erdäquator,

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180°.$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet.

Die Größen i, Δ und Ω' berechnen sich aus:

$$\sin\frac{1}{2}(\Delta + \Omega')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}\mho$$

$$\cos\frac{1}{2}(\Delta + \Omega')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}\mho$$

$$\sin\frac{1}{2}(\Delta - \Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}\mho$$

$$\cos\frac{1}{2}(\Delta - \Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}\mho;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. **199**, S. 263) zu $J = 1^\circ\ 32'\ 20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 306* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen $L_\odot$ und $M_\odot$ auf S. 29, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 9 (S. 415*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ρ, σ haben die Werte:

$$\tau = -\ 13''\sin M_{☾} + 65''\sin M_\odot + 26''\sin 2(L_{☾} - M_{☾} - \Omega)$$

$$\rho = -106''\cos M_{☾} + 34''\cos(2L_{☾} - M_{☾} - 2\Omega) - 11''\cos 2(L_{☾} - \Omega)$$

$$\sigma\sin J = -108''\sin M_{☾} + 34''\sin(2L_{☾} - M_{☾} - 2\Omega) - 11''\sin 2(L_{☾} - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. **199**, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.

(S. 307*—311*).

Die Ephemeride des Mondkraters Mösting A. dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 0^h Welt-Zeit und enthält für die Tage, an welchen Mösting A. innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_{☾} - \alpha_k$ in Rektaszension und $\delta_{☾} - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des

Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ zum geozentrischen Ort des Kraters hinzu (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A. angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_☾ - \alpha'_k$ und $\delta'_☾ - \delta'_k$ zwischen Mondmittelpunkt und Mösting A. aus folgenden Identitäten:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$
$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A. mit den mikrometrischen Messungen zwischen Mösting A. und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_☾$ und $\delta'_☾$ und den Angaben auf S. 306* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A. angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_☾) \cos \frac{1}{2} (\delta' + \delta'_☾)$$
$$s \cos \pi_m = \delta' - \delta'_☾$$
$$\pi = \pi_m - \frac{1}{2} (\alpha' - \alpha'_☾) \sin \frac{1}{2} (\delta' + \delta'_☾)$$
$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″59 (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\sin d = - \sin \delta'_☾ \cos K + \cos \delta'_☾ \sin K \cos \pi$$
$$\cos d \cos (a - \alpha'_☾) = - \cos \delta'_☾ \cos K - \sin \delta'_☾ \sin K \cos \pi$$
$$\cos d \sin (a - \alpha'_☾) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - \Omega')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - \Omega')$$
$$\cos \beta \cos \lambda' = \cos d \cos (a - \Omega')$$
$$\lambda = \lambda' - 180° - L_☾ - (\Delta - ℧).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_☾ - 65'' \sin M_\odot - 26'' \sin 2 (L_☾ - M_☾ - \Omega)$$
$$+ \operatorname{tg}\beta\, [-106'' \cos (L_☾ - M_☾ - \Omega + \lambda)$$
$$+ 34'' \cos (L_☾ - M_☾ - \Omega - \lambda) - 11'' \cos (L_☾ - \Omega - \lambda)]$$
$$d\beta = +108'' \sin (L_☾ - M_☾ - \Omega + \lambda) + 34'' \sin (L_☾ - M_☾ - \Omega - \lambda)$$
$$- 11'' \sin (L_☾ - \Omega - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A. liegen folgende von F. Hayn ermittelte Konstanten (Astr. Nachr. Bd. **199**, S. 263) zugrunde:

$$\lambda_0 = -5^\circ\ 10'\ 7'', \quad \beta_0 = -3^\circ\ 11'\ 2''$$
$$h = 15'\ 33''\!.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_☾ + 65'' \sin M_\odot + 26'' \sin 2 (L_☾ - M_☾ - \Omega)$$
$$d\beta = -107'' \sin (L_☾ - M_☾ - \Omega + \lambda_0) - 34'' \sin (L_☾ - M_☾ - \Omega - \lambda_0)$$
$$+ 11'' \sin (L_☾ - \Omega - \lambda_0),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A. sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 312*—313*).

Die Seiten 312* und 313* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 314*—315*, 318*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_α Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach H. Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887
Äquatorial 17″.47 Polar 15″.65

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35$$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25 nach G. Struve

$$\Omega_1 = 167^\circ\ 58'.08 \quad \text{und} \quad i_1 = 28^\circ\ 4'.55$$

Saturnstrabanten (S. 316*—325*).

Die Berechnungen der Saturnstrabanten Mimas bis Rhea sind mit den von G. Struve in den Veröffentlichungen der Universitätssternwarte Berlin-Babelsberg, Bd. VI, Heft 4 abgeleiteten Elementen durchgeführt worden. Für Titan und Japetus sind die von ihm in Bd. VI, Heft 5 angegebenen Elemente benutzt worden, und für Hyperion haben die von J. Woltjer in den Annalen der Sternwarte Leiden, Bd. 16, Teil 3 bestimmten Elemente als Grundlage gedient.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 127°\ 5'5$
$n = 381°994442$
$\delta l = -44°390 \sin [5°0864 (\tau - 1866.27)]$
$\qquad - 0°764 \sin 3 [5°0864 (\tau - 1866.27)]$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 56°1 - 365°23\, t$
$\gamma = 1°\ 31'0$
$\Pi_1 = 105°0 + 365°60\, t$
$e = 0.0201$
$a = 26''826$

ENCELADUS (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 199°\ 25'8$
$n = 262°7319405$
$\delta l = +14'39 \sin (\ 63°75 + 32°51\, t)$
$\qquad + 14'06 \sin (117°28 + 93°14\, t)$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 51°81 - 152°7\, t$
$\gamma = 1'4$
$\Pi_1 = 308°38 + 123°43\, t$
$e = 0.00444$
$a = 34''416$

TETHYS (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 284°\ 28'3$
$n = 190°697950$
$\delta l = +2°065 \sin [5°0864 (\tau - 1866.27)]$
$\qquad + 0°036 \sin 3 [5°0864 (\tau - 1866.27)]$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 110°39 - 72°25\, t$
$\gamma = 1°\ 5'56$
$e = 0.0000$
$a = 42''605$

DIONE (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 253°\ 52'0$
$n = 131°5349729$
$\delta l = -0'93 \sin (\ 63°75 + 32°51\, t)$
$\qquad - 0'91 \sin (117°28 + 93°14\, t)$
$l_1 = E_0 + nt_d + \delta l$

$\Theta = 201\overset{\circ}{.}0 - 31\overset{\circ}{.}0\, t$

$\gamma = 1\overset{\prime}{.}4$

$\Pi_1 = 173\overset{\prime}{.}4 + 30\overset{\prime}{.}75\, t$

$e = 0.00221$

$a = 54\overset{\prime\prime}{.}567$

RHEA (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 358^\circ\ 23\overset{\prime}{.}7$

$n = 79\overset{\circ}{.}6900881$

$l = E_0 + nt_d$

$(\Omega - \Omega_1) \sin i_1 = 20\overset{\prime}{.}49 \sin(344\overset{\circ}{.}09 - 10\overset{\circ}{.}20\, t) - 0\overset{\prime}{.}38 + 1\overset{\prime}{.}00 \sin(48\overset{\circ}{.}5 - 0\overset{\circ}{.}50\, t)$

$i - i_1 = 20\overset{\prime}{.}49 \cos(344\overset{\circ}{.}09 - 10\overset{\circ}{.}20\, t) - 2\overset{\prime}{.}79 + 1\overset{\prime}{.}00 \cos(48\overset{\circ}{.}5 - 0\overset{\circ}{.}50\, t)$

$\Pi = 275\overset{\circ}{.}85 + 0\overset{\circ}{.}53\, t + 17\overset{\circ}{.}64 \sin[9\overset{\circ}{.}5\,(\tau - 1879.59)]$

$e = 0.00098 + 0.00030 \cos[9\overset{\circ}{.}5\,(\tau - 1879.59)]$

$a = 76\overset{\prime\prime}{.}203$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

TITAN (Berlin-Bbg. VI, Heft 5)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 260^\circ\ 24\overset{\prime}{.}26$

$n = 22\overset{\circ}{.}577015$

$l = E_0 + nt_d + (E - E_0)$

$E - E_0 = + 4\overset{\prime}{.}39 \sin(40\overset{\circ}{.}69 - 0\overset{\circ}{.}506\, t)$

$\Omega = 167^\circ\ 51\overset{\prime}{.}90 + 39\overset{\prime}{.}00 \sin(40\overset{\circ}{.}69 - 0\overset{\circ}{.}506\, t)$

$i = 27^\circ\ 26\overset{\prime}{.}33 + 18\overset{\prime}{.}35 \cos(40\overset{\circ}{.}69 - 0\overset{\circ}{.}506\, t)$

$\Pi = 276^\circ\ 7\overset{\prime}{.}7 + 31\overset{\prime}{.}41\, t + 22\overset{\prime}{.}0\,(\sin 2g - \sin 2g_0)$

$e = 0.02910 + 0.000186\,(\cos 2g_0 - \cos 2g)$

$g = \Pi - \Omega - 4\overset{\circ}{.}5$

$g_0 = g$ für $t = 0$

$a = 176\overset{\prime\prime}{.}578$

HYPERION (J. Woltjer, Ann. Sternwarte Leiden Bd. XVI, 3, S. 64)
Anfangsepoche für t_d: 1900 Januar 0.0 Mittl. Zt. Grw.
„ „ t : 1900.0
Argumente: $\sigma = 93\overset{\circ}{.}13 + 0\overset{\circ}{.}562039\, t_d$ $\quad \tilde{\omega} = 148\overset{\circ}{.}72 - 19\overset{\circ}{.}184\, t$

$n = 16\overset{\circ}{.}9199896$

$l = 176\overset{\circ}{.}293 + 16\overset{\circ}{.}9199896\, t_d + 9\overset{\circ}{.}092 \sin\sigma + 0\overset{\circ}{.}211 \sin(\tilde{\omega} + \sigma) + 0\overset{\circ}{.}192 \sin(\tilde{\omega} - \sigma) - 0\overset{\circ}{.}077 \sin\tilde{\omega}$

$\Pi = 70\overset{\circ}{.}05 - 18\overset{\circ}{.}6562\, t - 13\overset{\circ}{.}67 \sin\tilde{\omega} + 0\overset{\circ}{.}93 \sin 2\tilde{\omega} - 0\overset{\circ}{.}47 \sin\sigma$

$e = 0.10419 + 0.02414 \cos\tilde{\omega} - 0.00401 \cos\sigma - 0.00183 \cos 2\tilde{\omega} + 0.00009 \cos(\tilde{\omega} - \sigma) - 0.00009 \cos(\tilde{\omega} + \sigma)$

$a = 214\overset{\prime\prime}{.}32 - 0\overset{\prime\prime}{.}74 \cos\sigma$

$$\gamma \sin h = -0{,}^\circ061 + 0{,}^\circ574 \sin[-2{,}^\circ392\, t + 95{,}^\circ9] + 0{,}^\circ315 \sin[-0{,}^\circ500\, t + 42{,}^\circ78]$$

$$\gamma \cos h = -0{,}^\circ747 + 0{,}^\circ574 \cos[-2{,}^\circ392\, t + 95{,}^\circ9] + 0{,}^\circ315 \cos[-0{,}^\circ500\, t + 42{,}^\circ78].$$

γ = Neigung der Bahnebene gegen den Saturnsäquator,
h = Länge des aufsteigenden Knotens auf dem Saturnsäquator, gezählt vom aufsteigenden Knoten des Saturnsäquators auf der Ekliptik.

JAPETUS (Berlin-Bbg. VI, Heft 5)
Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$E_0 = 75^\circ\ 25{,}'61$
$n = 4{,}^\circ537995$
$l = E_0 + nt_d$
$\Omega = 142^\circ\ 11{,}'3 - 1{,}'375\, t$

$i = 18^\circ\ 26{,}'39 - 0{,}'54\, t$
$\Pi = 354^\circ\ 27{,}'4 + 8{,}'1\, t$
$e = 0.02828$
$a = 514{,}''59$

Hierin bedeuten:

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
τ = Epoche
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\Delta) = 9.53887$.

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Auf den Seiten 316*—318* sind die Hilfsmittel gegeben, um in bequemer Weise die Positionen der Trabanten ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta}\ \frac{1}{1+\zeta}\ \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta}\ \frac{1}{1+\zeta}\ \frac{r}{a} \sin B \cos(u-U).$$

$(\Delta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, Δ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Die Größen v—M und $\log \frac{r}{a}$ sind auf S. 312*—313* des Jahrbuchs 1933 gegeben, $\log \frac{1}{1+\zeta}$ ist auf Seite 318* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u - U) + \sin\gamma \operatorname{cotg} B \sin(u - \vartheta)].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich für die fünf inneren Trabanten auf Seite 318*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$
$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$
$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 319*—321* finden sich, außer den Hilfsgrößen U, B und P für die Trabanten Titan, Hyperion und Japetus die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet für die beiden letzteren Trabanten.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 322*—325* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen ($u - U = 0°, 180°$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 326*—327*).

In der Übersicht der Konstellationen des Jahres 1945 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen sich

die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen, ebenso entsprechen die Angaben über Konjunktion und Opposition der Planeten mit der Sonne den Zeiten, zu denen der Rektaszensionsunterschied zwischen Planet und Sonne 0° oder 180° ist.

Auf- und Untergangszeiten der Sonne und des Mondes (S. 328*—363*).

Die für Orte auf dem Meridian von Greenwich und ausgewählte geographische Breiten zwischen —40° und +70° gegebenen mittleren Ortszeiten der Auf- und Untergänge von Sonne und Mond beziehen sich auf das Erscheinen bzw. Verschwinden des oberen Randes der Sonne oder des Mondes und sind mit der Horizontalrefraktion 34!0 berechnet.

Hilfstafeln (S. 364*—387*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 364*—366*).

a) Präzession in Länge und Breite (Seite 364*—365*).

$$p_\lambda = \psi + \pi \operatorname{tg} \beta \cos (\Pi - \lambda)$$
$$p_\beta = \pi \sin (\Pi - \lambda)$$

b) Präzession in Rektaszension und Deklination (Seite 366*).

$$p_\alpha = m + \tfrac{1}{15} n \sin \alpha \operatorname{tg} \delta$$
$$p_\delta = n \cos \alpha$$

c) Präzessionswerte m, n, ψ, π, Π und ε, die mittlere Schiefe der Ekliptik (Seite 366*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_\Omega = \psi - \pi \operatorname{cotg} i \sin (\Pi - \Omega)$$
$$p_i = - \pi \cos (\Pi - \Omega)$$
$$p_\omega = \pi \operatorname{cosec} i \sin (\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \operatorname{cotg} i' \cos \Omega'$$
$$p_{i'} = - n \sin \Omega'$$
$$p_{\omega'} = n \cos \Omega' \operatorname{cosec} i'$$

Den Tafeln a) und b) liegen die Präzessionswerte für 1950.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Eine Tafel zur Verwandlung von Minuten und Sekunden in Dezimalteile des Grades und umgekehrt (S. 367*).

3) Hilfstafeln zur Verwandlung von mittlerer Zeit in Sternzeit (S. 368*, 370*) und von Sternzeit in mittlere Zeit (S. 369*, 371*).

4) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 372*—373*).

5) Eine Tafel für die Ermittelung eines Datums in der Julianischen Periode (Seite 374* —378*). Die Tafel besteht aus zwei Teilen. Der erste Teil (S. 374* —375*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julianischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 376* —378*) gibt für die Jahre 1860—1979 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

6) Eine Tafel der Hilfsgrößen s und c (S. 379*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ρ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1-e^2}{\sqrt{1-e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1-e^2 \sin^2 \varphi}}, \quad e = \sqrt{2\alpha - \alpha^2}.$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\alpha = \frac{1}{297}$ angenommen.

7) Tafel des halben Tagbogens (S. 380* —381*), berechnet mit der Horizontalrefraktion 34ʹ.9 für geographische Breiten von + 30° bis + 60° und Deklinationen von — 30° bis + 30°.

8) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 382* —385*). Sie geben die Reduktion der für + 50° Breite gültigen Zeiten, wie sie in den Ephemeriden auf S. 3—19 bzw. S. 31—47 enthalten sind, auf geographische Breiten zwischen + 30° und + 60° und sind für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

9) Die Tafel zur Berechnung der optischen Mondlibration (S. 386* —387*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\text{arc } 1'} \text{tang}^2 \frac{1}{2} J \sin 2 (\lambda - \Omega)$$
$$a = -\cos (\lambda - \Omega) \sin J$$
$$\text{tang } B = -\sin (\lambda - \Omega) \text{ tang } J$$

J = Neigung des Mondäquators gegen die Ekliptik.

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 306*).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_☾$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_☾ + \Delta\lambda - a\,(B - \beta)$$
$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \,\frac{\cos\,(L_☾ + l' + \Delta - ☋)}{\cos\,\delta_☾} = -\sin i\,\frac{\cos\,(\alpha_☾ - ☊')}{\cos\,b'},$$

worin $\alpha_☾$, $\delta_☾$ Rektaszension und Deklination des Mondmittelpunktes gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ☋ und ☊′ haben schon auf S. 405* ihre Erklärung gefunden.

Koordinaten der Sternwarten (S. 388*—394*).

Die Seiten 388*—394* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend ist die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit in mittlerer Mitternacht minus Greenwicher Sternzeit in mittlerer Mitternacht.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297 berechnet.

Bei Berechnung von log ϱ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 395*).

Auf S. 395* sind die in den wichtigeren Ländern eingeführten Normalzeiten zusammengestellt.

Berichtigungen

Jahrbuch 1943,	S. 11,	Juli 7	Sternzeit	lies $21^{s}233$	anstatt	$21^{s}133$.
	S. 13,	Aug. 3	„	„ 48.244	„	48.144.
		Aug. 12	„	„ 17.236	„	17.136.
Jahrbuch 1944,	S. 13,	Aug. 25	„	„ 31.492	„	31.592.
	S. 348*,	März 27	φ +30°	lies $8^h\,13^m$	anstatt	$8^h\,3^m$.
		April 20	φ +65°	„ $4^h\,45^m$	„	$4^h\,35^m$.
	S. 354*,	Juli 24	φ +50°	„ $8^h\,28^m$	„	$8^h\,29^m$.
	S. 358*,	Okt. 25	φ +70°	„ $17^h\,28^m$	„	$17^h\,33^m$.
	S. 360*,	Dez. 4	φ +60°	„ $19^h\,36^m$	„	$20^h\,36^m$.

Jahrbuch 1945, S. 113*. Fußnote. Anstatt 0″107 lies 0″108.

Alphabetisches Sachregister